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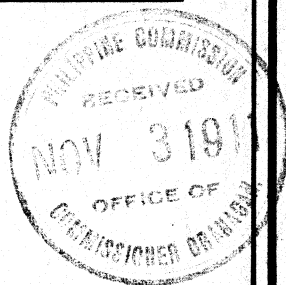
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# ANNUAL REPORT *of the* MUNICIPAL BOARD *of the* CITY of MANILA

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FOR THE  
FISCAL YEAR 1907

MANILA  
BUREAU OF PRINTING  
1907

61705



**ANNUAL REPORT *of the***  
**MUNICIPAL BOARD**  
***of the* CITY *of* MANILA**

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**FOR THE**  
**FISCAL YEAR 1907**

**MANILA**  
**BUREAU OF PRINTING**  
**1907**



## LETTER OF TRANSMITTAL.

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MANILA, P. I., *July 1, 1907.*

SIR: The Municipal Board has the honor to submit herewith its annual report covering the fiscal year 1907, from July 1, 1906, to June 30, 1907, inclusive.

Very respectfully,

FELIX M. ROXAS,

*President.*

P. G. McDONNELL,

MIGUEL VELASCO,

A. W. HASTINGS,

W. P. WYLIE,

*Members.*

The GOVERNOR-GENERAL OF THE PHILIPPINE ISLANDS,

*Manila, P. I.*

Manuel Munizol

# ANNUAL REPORT OF THE MUNICIPAL BOARD TO THE GOVERNOR-GENERAL OF THE PHILIPPINE ISLANDS.

## OFFICE OF THE SECRETARY.

There have been no changes in the personnel of the Board, and the distribution of the committee work remains the same as last year, as follows:

| Committee.                                | Member.    | Committee.                             | Member.   |
|---|------------|--|-----------|
| Law                                       | Roxas.     | New sewer and waterworks construction. | Roxas.    |
| Engineering and public works              | McDonnell. | Health                                 | Do.       |
| Police                                    | Do.        | Advisory Board                         | Velasco.  |
| Education                                 | Roxas.     | Markets and matadero                   | Do.       |
| Fire                                      | McDonnell. | Expropriation of lands                 | Do.       |
| Electrical installation and illumination. | Do.        | Transportation and sanitation          | Hastings. |
| Finance and taxation                      | Hastings.  | Licenses                               | Do.       |

The Board held 304 regular sessions and considered and acted upon 3,260 different items of municipal business.

In addition to the large number of routine papers submitted for approval—such as requisitions for supplies or for printing, applications for licenses, etc.—6,412 letters were received and 7,932 formal letters sent. This is a slight reduction in the amount of written correspondence as compared with the last year.

The Board executed twenty-four leases, entered into fourteen contracts, and passed eleven ordinances, lists of which follow:

### *Property leased to city.*

| Location.          | Rental per month. | Purpose.                   |
|--------------------|-------------------|----------------------------|
| 6 Panaderos        | P 50.00           | School.                    |
| 146 Real           | 40.00             | Do.                        |
| 89 Alix            | 300.00            | Do.                        |
| 28 Concepcion      | 150.00            | Do.                        |
| 4 San Geronimo     | 60.00             | Do.                        |
| 38-44 Gunao        | 300.00            | Do.                        |
| Cuartel Meisic     |                   | School and police station. |
| 36 Bustillos       | 200.00            | School.                    |
| 608 Iris           | 250.00            | Do.                        |
| 688 Cervantes      | 80.00             | Do.                        |
| 435-437 Santa Mesa | 200.00            | Do.                        |
| 4 Alejandro VI     | 200.00            | Do.                        |
| 187 San Marcelino  | 80.00             | Do.                        |
| 118 Real           | 120.00            | Do.                        |
| 31 Vives           | 180.00            | Do.                        |
| 147 Real           | 40.00             | Do.                        |
| 129 San Rafael     | 180.00            | Do.                        |
| 97 Dolores         | 150.00            | Do.                        |
| 781 Lemery         | 75.00             | Do.                        |
| 205 Real           | 200.00            | Do.                        |



*City property leased.*

| Location.                                | Rental per month. | Lessee.            |
|--|-------------------|--------------------|
| Escolta bridge and Monte de Piedad ..... | P92.00            | William Gitt.      |
| 21 San Fernando .....                    | 150.00            | A. H. Henry.       |
| 62 Crespo .....                          | 75.00             | Gabriel Fuster.    |
| 68 San Fernando .....                    | 200.00            | José Molina Salas. |

*Contracts.*

| Contractor.                                 | For—  | Rate or amount.                         |
|---|---|---|
| Sy Chuy Chim .....                          | Feeding prisoners in police stations, per person .....      | P0.28 per day.                          |
| Manuel Earnshaw & Co .....                  | Cast-iron engine frame, with bearing brasses, etc .....     | P645.                                   |
| Findlay & Co .....                          | Sewer and sluice gates .....                                | P2,000.                                 |
| Nicolas Vytingco .....                      | Concession, sale of lunches, Meisic School .....            | P45 per month.                          |
| Rosario Vizcarra .....                      | Gravel, paving sand, and mortar sand, per cubic meter ..... | P1.35, P0.985, and P1.05, respectively. |
| R. Machuca Gotaucó .....                    | Painting city hall .....                                    | P1,400.                                 |
| Feliciano Quiogue .....                     | Burial of pauper dead .....                                 | P4 and P5.                              |
| Manila Electric Railroad and Light Co. .... | Lighting of streets <sup>a</sup> .....                      |   |
| John H. Dow .....                           | Painting High School .....                                  | P2,172.                                 |
| Juan Galmes .....                           | Feeding prisoners in police stations, per person .....      | P0.60 and P0.30 per day.                |
| Manuel Earnshaw & Co .....                  | Repairs to discharge pipes of <i>Pluto</i> .....            | P433.02.                                |
| Findlay & Co .....                          | Castings, gravity water supply .....                        | P1,756.                                 |
| City of Manila .....                        | Removing excreta, etc., of military .....                   | P0.08½ per diem pails.                  |
| Do. ....                                    | Electrical inspection, fees, military .....                 | As per ordinance.                       |

<sup>a</sup>Substitution of arc for incandescent lights.*Ordinances enacted by the Municipal Board during the fiscal year 1907.*

| No. | Object.   | Date of enactment. |
|-----|---|--------------------|
| 86  | Sanitary Code .....   | Oct. 20, 1906      |
| 87  | Amending No. 31, pound ordinance .....  | Nov. 5, 1906       |
| 88  | Amending No. 11, use of streets and plazas .....  | Nov. 10, 1906      |
| 89  | Amending No. 78, Building Code .....  | Dec. 12, 1906      |
| 90  | Amending No. 31, pound ordinance .....  | Dec. 15, 1906      |
| 91  | Amending No. 68, electric ordinance .....   | Jan. 22, 1907      |
| 92  | Repealing section 5, No. 47, regulating manufacture, storage, sale, transportation, and use of explosives ..... | Do.                |
| 93  | License and permit ordinance .....  | Feb. 11, 1907      |
| 94  | Electric ordinance .....  | Feb. 15, 1907      |
| 95  | Amending No. 93, license and permit ordinance .....   | Apr. 12, 1907      |
| 96  | Amending No. 78, Building Code .....  | May 16, 1907       |

Below is presented a list of various parcels of property purchased by the city during the year, all of which, with the exception of block 42, in Tondo, for the new Tondo school, two sites for sewer pumping stations, and the pipe-line right of way, are for widening and straightening the various narrow and crooked streets in the city.

A list of the property sold by the city is also shown.

*Property purchased by city.*

| Purchased from—                                  | Location.                             | Area<br>(square<br>meters). | Price.    |
|--|---------------------------------------|-----------------------------|-----------|
| José Arriola                                     | Santo Sepulero                        | 97.21                       | ₱116.65   |
| Carmen de Ayala de Roxas                         | 150-165 Escolta                       | 54.58                       | 4,842.00  |
| Heirs of Fernandez Ruiz                          | 52 Nueva                              | 96.57                       | 828.64    |
| G. Tuason  | 206 Nueva                             | 69.40                       | 555.20    |
| Nicanor Abella and Feliciano B. Basa             | Calle C and Third avenue              | 2,069.21                    | 1,034.60  |
| Maria Ubaldó                                     | Tondo, block 67, lot 7                | 238.22                      | 2,119.00  |
| Julia Tuason                                     | Herran and Nueva                      | 533.34                      | 4,931.84  |
| M. M. Paterno                                    | 302-4 Nueva                           | 10.91                       | 65.46     |
| Apolinaria, Benito Placido, and Lorenzo Modesto. | Tondo, block 67, lot 7                | 242.19                      | 800.00    |
| Agustin and Luisa Inocencio                      | Tondo, block 67, lot 5                | 326.35                      | 826.00    |
| Felipa Lipoyco                                   | Tondo, block 67, lot 2                | 348                         | 301.00    |
| Do   | Tondo, block 67, lot 4                | 102.61                      | 335.00    |
| Natalia Fabian                                   | Tondo, block 67, lot 3                | 90.94                       | 487.00    |
| Do   | Tondo, block 67, lot 8                | 109.01                      | 615.00    |
| Agustin Inocencio                                | Tondo, block 67, lot 10               | 199.62                      | 124.00    |
| Hipolito Dusepec                                 | Tondo, block 67, lot 6                | 140.94                      | 443.00    |
| Simeona Luinag                                   | Tondo, block 67, lots 11 and 12       | 102.97                      | 147.00    |
| Victoria Butler, Vda. de Burke                   | San Fernando and Santo Cristo         | 176.80                      | 5,847.82  |
| Vicente Socorro                                  | Marina                                | 25.10                       | 37.65     |
| Miguel Carbonel                                  | Aviles                                | 64.53                       | 987.18    |
| Estefania Navarrete                              | Isaac Peral                           | 174.06                      | 1,140.00  |
| George E. Wolf                                   | do                                    | 4,597.19                    | 13,796.18 |
| Jacinto de Guzman                                | Lemery                                | 29.49                       | 73.14     |
| Carmelo & Bauerman                               | do                                    | 53.97                       | 539.70    |
| R. Heras   | San José                              | 6.24                        | 62.40     |
| Justina Escaño                                   | San Marcelino                         | 5.60                        | 22.80     |
| Luis R. Yango                                    | Jaboneros                             | 14.07                       | 322.14    |
| Canuto Reyes                                     | Vergara                               | 9.94                        | 49.70     |
| Cirilo Ampil                                     | Sande                                 | 30.65                       | 91.95     |
| Tomasa Bonoan                                    | Azcarraga                             | 4.55                        | 91.00     |
| Ricardo Aguado                                   | Divisoria                             | 12.43                       | 124.30    |
| Sixto Castillo                                   | Azcarraga                             | 284.51                      | 2,850.00  |
| Eulalia Lim                                      | do                                    | (*)                         | 650.00    |
| M. E. Church                                     | Nozaleda                              | 369.34                      | 3,675.20  |
| Santiago Barcelona                               | Lemery, Lorenzo Chacon, Melchor Cano. | 271.69                      | 1,400.79  |
| P. E. Church                                     | San Antonio                           | 1,283.95                    | 5,201.28  |
| A. S. Watson & Co                                | Escolta                               | 20.36                       | 1,832.40  |
| Jessie Lesser                                    | Alejandro VI and Tortuoso             | 3.34                        | 13.36     |
| Felisa and Maria Toribio                         | Centeno and Quiotan                   | 223.55                      | 2,907.17  |
| Martin Javier                                    | C                                     | 21.68                       | 32.52     |
| Felix Javier                                     | San Sebastian                         | 9.65                        | 115.80    |
| Leopoldo Belen                                   | Tondo, block 42, lot 4                | 426.37                      | 1,417.44  |
| Juana de Francia                                 | Centeno                               | 144.05                      | 2,282.72  |
| Ramón Santos and Camila Francisco                | Santa Ana, block 12, lot 19           | 286                         | 526.00    |
| Heirs of Elena Trinidad Herrera                  | Tondo, block 42, lot 2                | 388.49                      | 1,318.00  |
| Various persons                                  | Mariquina Valley                      |                             | 1,425.41  |
| Teodora Mariano                                  | Tondo, block 42, lot 5                | 117.76                      | 300.00    |
| Francisca Sacay                                  | Tondo, block 42, lot 1                | 382.40                      | 1,252.00  |

\* Building only.

b And 104.37 square meters of city land.

*Property sold by city.*

| Sold to—                       | Location.                     | Area<br>(square<br>meters). | Price.     |
|--------------------------------|-------------------------------|-----------------------------|------------|
| Army and Navy Club             | Luneta extension              | 9,600                       | ₱38,860.00 |
| José Arriola                   | Santo Sepulero                | 14.81                       | 17.77      |
| Victoria Butler, Vda. de Burke | San Fernando and Santo Cristo | 15.52                       | 528.76     |
| F. Gutierrez                   | Escolta                       | 12.14                       | 1,092.60   |
| Nellie Louise Cook             | Peñafrancia                   | 714.62                      | 1,226.00   |
| Candelaria Alonzo              | Estero Cegado                 | 86.26                       | 345.04     |
| Ruperto Anido                  | Soler                         | 29.39                       | 176.34     |
| J. R. de Luzuriaga             | Dakota                        | 695.70                      | 4,005.84   |
| Luis R. Yango                  | Jaboneros                     | 2.71                        | 48.78      |
| José P. Borja                  | Dakota                        | 397.70                      | 1,750.80   |
| F. Villamil                    | do                            | 525.85                      | 2,271.08   |
| Pohoomull Brothers             | do                            | 1,142.52                    | 4,882.40   |
| C. F. Fyffe                    | do                            | 1,051.45                    | 4,461.12   |
| D. J. Doherty                  | San Pedro                     | (*)                         | 9,000.00   |
| Santiago Barcelona             | Morga                         | 343.80                      | 1,922.30   |
| B. P. O. Elks                  | Luneta Extension              | 3,764                       | 15,056.00  |
| Jessie Lesser                  | Tortuosa                      | 23.02                       | 92.08      |
| Ariston Tuason                 | Barbosa                       | 11.42                       | 11.42      |
| Julia Tuason                   | Nueva                         | (*)                         | 140.00     |
| Bibiana Isaac                  | Estero Cegado                 | 252.09                      | 1,008.36   |

\* Building and lot.

b Building only.

The contracts with San Juan de Dios Hospital and St. Paul's Hospital for the care of the indigent sick were continued in force during the year, with satisfactory results, the total cost for the year being ₱51,074.80. Under these contracts the two hospitals provide all medical attention, medicine, food, and hospital accommodations at ₱1.40 per day for each patient.

*Cost of cure of indigent sick of city, by months.*

| Month.          | San Juan de Dios Hospital. | St. Paul's Hospital. | Month.         | San Juan de Dios Hospital. | St. Paul's Hospital. |
|-----------------|----------------------------|----------------------|----------------|----------------------------|----------------------|
| July .....      | ₱2,170.00                  | ₱2,170.00            | January .....  | ₱2,170.00                  | ₱2,170.00            |
| August .....    | 2,170.00                   | 2,170.00             | February ..... | 1,960.00                   | 1,960.00             |
| September ..... | 2,100.00                   | 2,100.00             | March .....    | 2,170.00                   | 2,170.00             |
| October .....   | 2,144.80                   | 2,170.00             | April .....    | 2,100.00                   | 2,100.00             |
| November .....  | 2,100.00                   | 2,100.00             | May .....      | 2,170.00                   | 2,170.00             |
| December .....  | 2,170.00                   | 2,170.00             | June .....     | 2,100.00                   | 2,100.00             |

Total cost for the year :

|                                 |            |
|---------------------------------|------------|
| San Juan de Dios Hospital ..... | ₱25,524.80 |
| St. Paul's Hospital .....       | 25,550.00  |

The contract with the Hospicio de San José for the care of juvenile offenders was likewise continued, the cost to the city having been ₱10,386, or 40 centavos per day for each child. During the year there were periodical outbreaks among the youthful offenders confined in the hospicio, and on more than one occasion a number of them escaped. Conditions have been remedied there, however, and it is believed there will be no further complaint on that score.

On February 18 the Municipal Board pardoned thirty-two of these youthful malefactors, of whom seven immediately returned to their evil ways and were apprehended by the police and resentenced. A statement is submitted showing the number, sex, and the average age.

*Admitted to reformatory at Hospicio de San José.*

| Month.          | Males. | Females. | Month.         | Males. | Females. |
|-----------------|--------|----------|----------------|--------|----------|
| July .....      | 10     | 1        | January .....  | 7      | 1        |
| August .....    | 11     | 3        | February ..... | 4      | 0        |
| September ..... | 12     | 1        | March .....    | 7      | 3        |
| October .....   | 11     | 0        | April .....    | 3      | 3        |
| November .....  | 9      | 0        | May .....      | 1      | 0        |
| December .....  | 3      | 1        | June .....     | 4      | 1        |

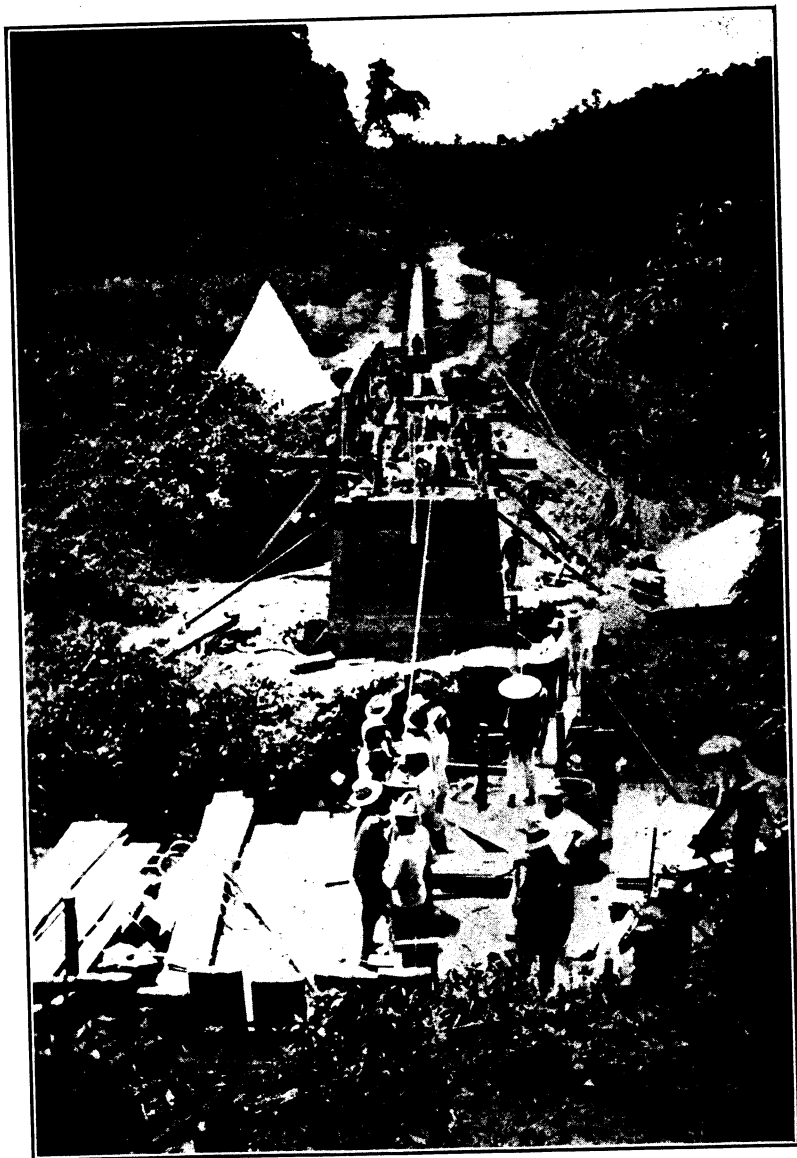
Males, 82; females, 14; average age, 14 years 4 months.

On February 17 the secretary of the Board, with the superintendent of buildings and plumbing inspection and the assistant chief of police, was appointed a committee to make a study of the Election Law, and to submit a report with recommendations respecting the details of the things which the Board was charged with doing under said law. This committee was afterwards directed to take charge of the election and to provide everything necessary for its successful operation.



DAM SITE.





ERECTING STEEL BRIDGE NEAR HEAD WORKS.



The committee's first duty was to district the city, or rather to divide the two districts provided for by the Election Law into voting precincts. This was done by dividing the First District, including Tondo, Binondo, San Nicolas, and Intramuros, and the vessels and cascoes in the river and harbor, and having a population of 112,123, into twenty-three election precincts. The Second District, comprising Ermita, Malate, Paco, Pandacan, Quiapo, Sampaloc, San Miguel, Santa Ana, and Santa Cruz, and having a population of 107,712, was divided into twenty-five precincts, making a total of forty-eight in all. Provision was thus made for 19,220 voters. According to the census there are actually 41,028 literate American and Filipino males over 21 years of age. The result of the registration shows either that the number of voters was largely overestimated or that the voters were very apathetic, for there were only 7,902 voters registered, or a trifle over 3½ per cent of the population. A table showing the number of voters in each precinct follows:

*Result of the four days of registration, June 21, 22, 28 and 29, 1907, in the First and Second assembly Districts of the city of Manila.*

## FIRST ASSEMBLY DISTRICT.

| Precinct. | Filipinos. | Americans. | Total. | Precinct.  | Filipinos. | Americans. | Total. |
|-----------|------------|------------|--------|------------|------------|------------|--------|
| 1.....    | 220        | 3          | 223    | 14.....    | 134        | 11         | 145    |
| 2.....    | 165        | 2          | 167    | 15.....    | 65         | 16         | 81     |
| 3.....    | 225        | 5          | 230    | 16.....    | 54         | 21         | 75     |
| 4.....    | 205        |            | 205    | 17.....    | 228        | 20         | 248    |
| 5.....    | 162        | 14         | 176    | 18.....    | 66         | 7          | 73     |
| 6.....    | 118        | 3          | 121    | 19.....    | 28         | 5          | 33     |
| 7.....    | 171        | 7          | 178    | 20.....    | 33         | 1          | 34     |
| 8.....    | 141        | 1          | 142    | 21.....    | 47         | 27         | 74     |
| 9.....    | 184        | 4          | 188    | 22.....    | 166        | 31         | 197    |
| 10.....   | 224        | 3          | 227    | 23.....    | 129        | 33         | 162    |
| 11.....   | 126        | 2          | 128    |            |            |            |        |
| 12.....   | 52         |            | 52     |            |            |            |        |
| 13.....   | 158        | 3          | 161    | Total..... | 3,101      | 219        | 3,420  |

## SECOND ASSEMBLY DISTRICT.

|         |     |    |     |            |       |     |       |
|---------|-----|----|-----|------------|-------|-----|-------|
| 24..... | 85  | 13 | 98  | 38.....    | 164   | 23  | 187   |
| 25..... | 248 | 34 | 282 | 39.....    | 61    | 10  | 71    |
| 26..... | 206 | 34 | 240 | 40.....    | 188   | 15  | 203   |
| 27..... | 220 | 16 | 236 | 41.....    | 71    | 24  | 95    |
| 28..... | 177 | 10 | 187 | 42.....    | 162   | 83  | 245   |
| 29..... | 142 | 3  | 145 | 43.....    | 47    | 50  | 97    |
| 30..... | 133 | 5  | 138 | 44.....    | 277   | 53  | 330   |
| 31..... | 82  | 17 | 99  | 45.....    | 190   | 106 | 296   |
| 32..... | 139 | 25 | 164 | 46.....    | 331   | 37  | 368   |
| 33..... | 240 | 10 | 250 | 47.....    | 136   | 2   | 138   |
| 34..... | 111 | 8  | 119 | 48.....    | 130   | 7   | 137   |
| 35..... | 87  | 29 | 116 |            |       |     |       |
| 36..... | 147 | 13 | 160 | Total..... | 3,945 | 637 | 4,482 |
| 37..... | 171 | 10 | 181 |            |       |     |       |

|                                    |       |
|------------------------------------|-------|
| Precincts.....                     | 48    |
| Filipinos.....                     | 7,046 |
| Americans.....                     | 856   |
| Total Filipinos and Americans..... | 7,902 |



It is estimated that the cost to the city of holding the election will be approximately ₱10,000; this will be paid out of the appropriation for the coming fiscal year. The estimate includes rent of polling places, salaries of the officers of election (four to each precinct), printing, lighting, stationery, etc.

The collections of this office for furnishing and certifying to copies of public documents were insignificant, amounting to ₱43.50.

### REPORT ON FINANCE.

The following comparative itemized statements of receipts and expenditures, and other exhibits herewith submitted, form the better and more interesting part of the report under this head.

#### *Receipts and expenditures, fiscal year 1907.*

[Not including sewer and waterworks construction.]

| Account.  | Net expenditure. | Account.   | Net receipts  |
|---|------------------|--|---------------|
| To Municipal Board, Advisory Board, public charities, etc. ....   | ₱199,547.93      | By city assessor and collector, as per itemized statement .....  | ₱2,590,254.80 |
| To law department (including city attorney's office, sheriff's office, register of deeds, municipal court, and justice of the peace courts) ..... | 76,513.08        | By register of deeds .....   | 13,474.74     |
| To office of prosecuting attorney .....   | 38,600.03        | By Insular Treasurer:  |               |
| To fire department .....  | 278,630.17       | Miscellaneous collections .....  | ₱4,872.84     |
| To police department .....  | 794,130.60       | 70 per cent of the interest collected on balances belonging to sewer and waterworks account on deposit in New York ..... | 100,102.24    |
| To department of engineering and public works .....   | 843,437.10       |  | 104,975.08    |
| To department of sanitation and transportation .....  | 734,253.02       | By disbursing officer:   |               |
| To department of assessments and collections .....  | 142,286.54       | Transportation service .....   |               |
| To department of city schools (not including cost of reconstruction of Cuartel Meisie, other repairs, and water and electric light) .....         | 265,394.15       | Insular Government .....   | 106,567.24    |
| To permanent public improvements * .....  | 143,356.03       | Interdepartment collections .....  | 139,980.92    |
| To Luneta Extension .....   | 49,009.03        |  | 246,548.16    |
| Total net expenditures by disbursing officer * .....  | 3,565,157.68     | Total collections .....  | 2,955,252.28  |
| To interest on sewer and waterworks bonds .....   | 160,000.00       | Less refunds paid by disbursing officer .....  | 3,567.82      |
| To sinking fund .....   | 38,740.00        | Less refunds paid by auditor .....   | 10,053.14     |
| To Insular Government for New York exchange .....   | 1,500.00         | Total refunds .....  | 13,620.96     |
| To Insular Government balance due on purchase of land transportation, etc. ....   | 106,567.24       | Net collections .....  | 2,941,631.32  |
| Total net expenditures .....  | 3,871,964.92     | By Insular Government contribution, 30 per cent of ₱3,871,964.92 .....   | 1,161,589.48  |
| Excess of receipts over expenditures .....  | 231,255.88       | Total .....  | 4,103,220.80  |
| Total .....   | 4,103,220.80     | By balance brought down .....  | 231,255.88    |

\* See disbursing officer's Exhibits A and B, page 17.

*Sewer and waterworks construction account.*

| Item.   | Amount.      | Item.   | Amount.       |
|---|--------------|---|---------------|
| DEBIT.  |              | CREDIT.   |               |
| To amounts previously expended and reported   | P597,840.76  | By proceeds of sale of \$1,000,000 gold bonds of the issue of June 1, 1905    | P2,191,250.00 |
| To sundry expenditures during fiscal year 1907, as shown by report of disbursing officer <sup>a</sup> | 2,113,895.82 | By proceeds of sale of \$2,000,000 gold bonds of the issue of January 1, 1907 | 4,234,010.70  |
| To balance on deposit in New York at 4 per cent   | 3,000,000.00 |   |               |
| To balance on deposit in New York at 3 per cent   | 414,010.70   |   |               |
| To balance in Treasury here   | 299,513.42   |   |               |
| Total   | 6,425,260.70 | Total   | 6,425,260.70  |
|   |              | By balance brought down   | 3,713,524.12  |

<sup>a</sup> See disbursing officer's Exhibit C, page 18.<sup>b</sup> In addition to this balance there are \$1,000,000 of gold bonds authorized to be sold January 1, 1908, for this account.*Sewer and waterworks bonds.*

[United States currency.]

| Item.   | Amount.        | Item.                                | Amount.        |
|---|----------------|--------------------------------------|----------------|
| To series of June 1, 1905, sold on that date    | \$1,000,000.00 | By amount authorized by Act No. 1323 | \$4,000,000.00 |
| To series of January 2, 1907, sold on that date | 2,000,000.00   |                                      |                |
| To balance on hand to be sold January 1, 1908   | 1,000,000.00   |                                      |                |
| Total   | 4,000,000.00   | Total                                | 4,000,000.00   |
|   |                | By balance brought down              | 1,000,000.00   |

*Sewer and waterworks sinking fund.*

|  |             |
|--|-------------|
| First installment, paid December 8, 1905   | \$19,370.00 |
| Second installment, paid December 10, 1906 | 19,370.00   |
| Interest earned to June 30, 1907           | 1,558.83    |
| Total (United States currency)             | 40,298.83   |

This fund is on deposit at 4 per cent interest with the International Banking Corporation at Washington.

*Comparative statement of collections for the fiscal years 1906 and 1907 and the estimated collections for 1908.*

| Source of revenue.                     | Fiscal year—  |               |                   |
|--|---------------|---------------|-------------------|
|  | 1906.         | 1907.         | 1908 (estimated.) |
| Real-estate tax                        | P1,208,265.31 | P1,302,855.00 | P1,250,000.00     |
| Matadero fees                          | 160,049.25    | 164,962.53    | 170,000.00        |
| Market fees                            | 269,430.88    | 238,054.41    | 270,550.00        |
| Municipal licenses                     | 217,958.16    | 216,850.40    | 230,000.00        |
| Live stock, registered and transferred | 785.80        | 771.40        | 800.00            |
| Vehicle equipment                      | 1,231.30      | 1,215.80      | 1,200.00          |
| Rents, city property                   | 18,730.29     | 19,950.32     | 20,000.00         |
| Municipal court fines and fees         | 68,500.77     | 53,331.43     | 50,000.00         |

*Comparative statement of collections for the fiscal years 1906 and 1907, etc.—Continued.*

| Source of revenue.  | Fiscal year— |              |                   |
|---|--------------|--------------|-------------------|
|   | 1906.        | 1907.        | 1908 (estimated). |
| Weights and measures  | P6,410.40    | P715.40      |                   |
| Miscellaneous, burial funds (Bureau of Health)                  | 4,935.60     | 4,012.00     | P4,000.00         |
| Justice of the peace fees                                       | 6,757.90     | 5,968.57     | 6,000.00          |
| Sheriff fees  | 13,689.36    | 16,752.65    | 15,000.00         |
| Sales, city land  | 2,644.30     | 18,397.63    | 25,000.00         |
| City attorney fees  | 192.26       |              | 200.00            |
| Electrician fees  | 7,868.70     | 5,495.75     | 5,000.00          |
| Pound fees  | 4,077.00     | 4,065.14     | 5,000.00          |
| Franchise tax (Manila Electric Railroad and Light Co.)          | 28,662.85    | 40,861.54    | 45,000.00         |
| Secretary, Municipal Board fees                                 | 69.00        | 43.50        | 50.00             |
| Internal-revenue dividend                                       | 74,876.93    | 135,656.76   | 140,000.00        |
| Miscellaneous   | 13,811.70    | 5,128.10     | 7,000.00          |
| Industrial tax  | 1,191.81     |              |                   |
| Certificates of registration                                    | 846.00       |              |                   |
| Pail system   | 59,327.16    | 48,508.26    | 50,000.00         |
| Vault cleaning  | 38,691.85    | 39,199.00    | 35,000.00         |
| Transportation of meat  | 3,470.74     | 8,995.16     | 9,000.00          |
| Cementerio del Norte  | 13,425.09    | 10,996.50    | 10,000.00         |
| Rent of niches (Bureau of Health)                               | 10,112.40    | 9,752.60     | 10,000.00         |
| Building permits  | 17,958.90    | 15,314.47    | 15,000.00         |
| Water rents   | 210,738.69   | 221,187.98   | 225,000.00        |
| Boiler inspector fees   | 1,070.00     | 1,212.00     | 1,200.00          |
| Total collections by city assessor and collector                | 2,465,780.40 | 2,590,254.30 | 2,600,000.00      |
| Register of deeds   | 14,850.11    | 13,474.74    | 14,000.00         |
| Miscellaneous collections by Insular Treasurer                  | 60.00        | 4,872.84     |                   |
| 70 per cent of internal-revenue, collector by Insular Treasurer |              | 100,102.24   | 86,000.00         |
| Land transportation furnished the Insular Government            |              |              | 96,000.00         |
| Grand total   | 2,480,690.51 | 2,708,704.12 | 2,796,000.00      |

The above totals do not include inter-department collections by disbursing officer.

*Comparative statement of expenditures for 1906 and 1907 and estimate for 1908.*

| Item.   | Fiscal year— |              |                   |
|---|--------------|--------------|-------------------|
|   | 1906.        | 1907.        | 1908 (estimated). |
| Municipal Board, Advisory Board, disbursing office, public charities, and care of city prisoners  | P204,828.74  | P199,547.93  | P203,000.00       |
| Department of law (including office of city attorney, prosecuting attorney, office of sheriff, office of register of deeds, municipal court, and justice of the peace courts) | 151,396.91   | 115,113.11   | 109,240.00        |
| Fire department   | 295,030.63   | 278,630.17   | 297,920.00        |
| Police department   | 1,158,380.85 | 794,130.60   | 750,000.00        |
| Engineering and public works  | 1,102,897.49 | 843,437.10   | 721,455.00        |
| Sanitation and transportation (including streetsprinkling, street cleaning, care of parks, cemeteries, and public grounds)  | 907,147.61   | 734,253.02   | 742,700.00        |
| Department of assessments and collections   | 116,372.45   | 142,286.54   | 100,000.00        |
| City schools (not including rents, repairs, water, and electric light for 1906-7)   | 272,771.42   | 265,394.15   | 344,728.00        |
| Public works  | 782,610.58   | 143,356.03   | 46,000.00         |
| Luneta Extension  | 260,020.08   | 49,009.03    | 50,000.00         |
| Interest on bonds   |              | 160,000.00   | 260,000.00        |
| Sinking fund  |              | 38,740.00    | 116,220.00        |
| Exchange  |              | 1,500.00     | 2,820.00          |
| Payment on account of purchase of land transportation   | 114,796.73   | 106,567.24   |                   |
| Total   | 5,366,253.49 | 3,871,964.92 | 3,744,083.00      |

Sewer and waterworks construction account not included in the above.

*Inventory of real estate belonging to the city of Manila June 30, 1907, summarized by districts.*

| Location.         | Value.     | Location.                            | Value.    |
|-------------------|------------|--------------------------------------|-----------|
| District:         |            | District—Continued.                  |           |
| Intramuros .....  | ₱1,364,173 | Paco .....                           | ₱208,269  |
| Binondo .....     | 361,578    | Pandacan .....                       | 7,443     |
| San Nicolas ..... | 869,424    | Santa Ana .....                      | 536       |
| Santa Cruz .....  | 425,146    | Reclaimed tract of land, known as    |           |
| Quiapo .....      | 100,033    | the "Luneta Extension," having       |           |
| San Miguel .....  | 12,569     | a superficial area of 247,000 square |           |
| Sampaloc .....    | 155,368    | meters; estimated value .....        | 1,235,000 |
| Tondo .....       | 340,804    |                                      |           |
| Ermita .....      | 1,485,008  | Total .....                          | 6,789,777 |
| Malate .....      | 224,426    |                                      |           |

*Summary of nonexpendable personal property belonging to the city of Manila, June 30, 1907, listed by departments.*

|   |              |
|---|--------------|
| Municipal Board .....                             | ₱9,365.39    |
| City disbursing office .....                      | 4,898.57     |
| Department of engineering and public works .....  | 426,554.08   |
| Police department .....                           | 179,159.30   |
| Fire department .....                             | 254,088.71   |
| Department of schools .....                       | 72,363.20    |
| Law department .....                              | 27,112.65    |
| Department of sanitation and transportation ..... | 607,851.35   |
| Total .....                                       | 1,581,393.25 |

*Assets and liabilities of the city of Manila, June 30, 1907.*

ASSETS.

|  |               |
|--|---------------|
| Real estate, as per statement .....  | ₱6,789,777.00 |
| Personal property, as per statement .....  | 1,581,393.25  |
| Accrued interest on balance in New York (see sewer and water-works account, p. 18) .....   | 26,067.72     |
| Internal-revenue dividends withheld by Auditor waiting adjustment of certain claims in favor of the Insular Government .....   | 77,778.80     |
| Claim against Insular Government for reimbursement for police service rendered by the city .....   | 277,550.00    |
| Claim against San Lazaro estate for taxes from 1901 to 1907, inclusive, estimated at .....   | 200,000.00    |
| 94 shares of the capital stock of the Banco Español-Filipino .....   | 23,500.00     |
| Deferred payments on sales of city real estate .....   | 67,552.62     |
| Insular Government—Tentative agreement to take over from the city the care and maintenance of the river walls and to reimburse the city for all expenditures made by the city upon said walls, about ..... | 300,000.00    |
| Total .....  | 9,343,619.39  |

NOTE.—Total assessed valuation of real estate subject to taxation, ₱81,689,785.

## LIABILITIES.

|  |               |
|--|---------------|
| Sewer and waterworks bonds, 30-year 4 percents:  |               |
| Issue of June 1, 1905.....   | ₱2,000,000.00 |
| Issue of January 2, 1907 .....   | 4,000,000.00  |
| Total .....  | 6,000,000.00  |
| Less sinking fund, as provided by Act No. 1323.....  | 80,597.66     |
| Net funded debt.....   | 5,919,402.34  |
| To the above may be added, as a contingent liability, two claims made by the Insular Government, both of which are denied by the Board as valid claims against the city..... | 77,778.80     |
| One claim is for care and maintenance of prisoners in Bilibid, between dates of July 1, 1904, and December 31, 1905, amounting to the sum of.....                            | 46,562.80     |
| The other claim is for court costs and fees accruing prior to the passage of Act No. 1335 amounting to the sum of.....   | 31,216.00     |
| Total .....  | 77,778.80     |

Action has been taken by both the honorable Commission and the Municipal Board, with the view of reaching an amicable adjustment of these claims.

The Municipal Board has been confronted during the past two years with the difficult problem of reshaping the expenditures of the city so as to fit the greatly reduced revenues, which followed the repeal of the old industrial-tax law and the old stamp-tax law, whereby the city's income was reduced about ₱900,000.

It has been no easy task to bring the expenditures to a point within the reduced income, since public works planned and under way prior to the repeal of said laws had to be carried to completion, as well as other necessary improvements which had to be made and paid for.

The trimming process has been constantly but carefully applied, and with reasonably gratifying results, both as to the saving effected and the standard of maintenance and permanent improvements accomplished.

The authorized expenditures for the city of Manila for the fiscal year 1907, exclusive of sewer and waterworks construction, aggregated ₱3,732,388, as follows:

|  |                     |
|--|---------------------|
| For the Municipal Board, Advisory Board, public charities, and disbursing officer .....  | ₱203,000.00         |
| For the law department.....  | 117,000.00          |
| For the fire department.....   | 290,000.00          |
| For the police department.....   | 837,500.00          |
| For the department of schools.....   | 292,000.00          |
| For the department of assessments and collections.....   | 107,500.00          |
| For the department of engineering and public works.....  | 864,500.00          |
| For the department of sanitation and transportation.....   | 770,000.00          |
| For public improvements.....   | 42,148.00           |
| For the Luneta Extension.....  | 50,000.00           |
| For the interest on sewer and water bonds.....   | 120,000.00          |
| For the sinking fund.....  | 38,740.00           |
| <b>Total .....</b>   | <b>3,732,388.00</b> |
| To the above should be added contingent liabilities on account of unexpended appropriations for public improvements brought forward from the fiscal year 1906..... | 193,951.44          |
| Also the balance due on account of purchase from the Insular Government of land transportation and corral.....   | 106,569.24          |
| <b>Making a total of.....</b>  | <b>4,032,908.68</b> |

As appears from the foregoing statement, the Board entered upon the fiscal year 1907 with authority to spend the sum of ₱4,032,908, exclusive of the sewer and waterworks construction. The Board, however, was resolved that the expenditures should not exceed the receipts. The latter being somewhat of a doubtful quantity, economy became the watchword and the head of each and every department coöperated with the Board in keeping the expenses down to a minimum without danger of serious impairment or prejudice to the efficiency of the service and best interests of the public. In other words, all the departments of the city got right close down to a real business basis. As a result the city had at the close of the year an unexpended balance of receipts over expenditures of ₱231,255.88, as shown by the balance sheet presented as a part of this report, and no obligations left over to be carried forward to the new year.

The increased receipts over those of 1906, upon which, to a very considerable degree, the estimates or authorized expenditures were based, accounts for no small share of this balance.

In making the comparison of expenditures for 1907 with the expenditures for 1906, it should be borne in mind that of the amount expended in 1907 the sum of ₱200,240 was absorbed for interest on the sewer and waterworks bonds and the sinking fund for same, a charge not before appearing. This item will continue to increase until all the bonds are sold, when the total annual charge for interest and sinking fund will become fixed at ₱474,960.

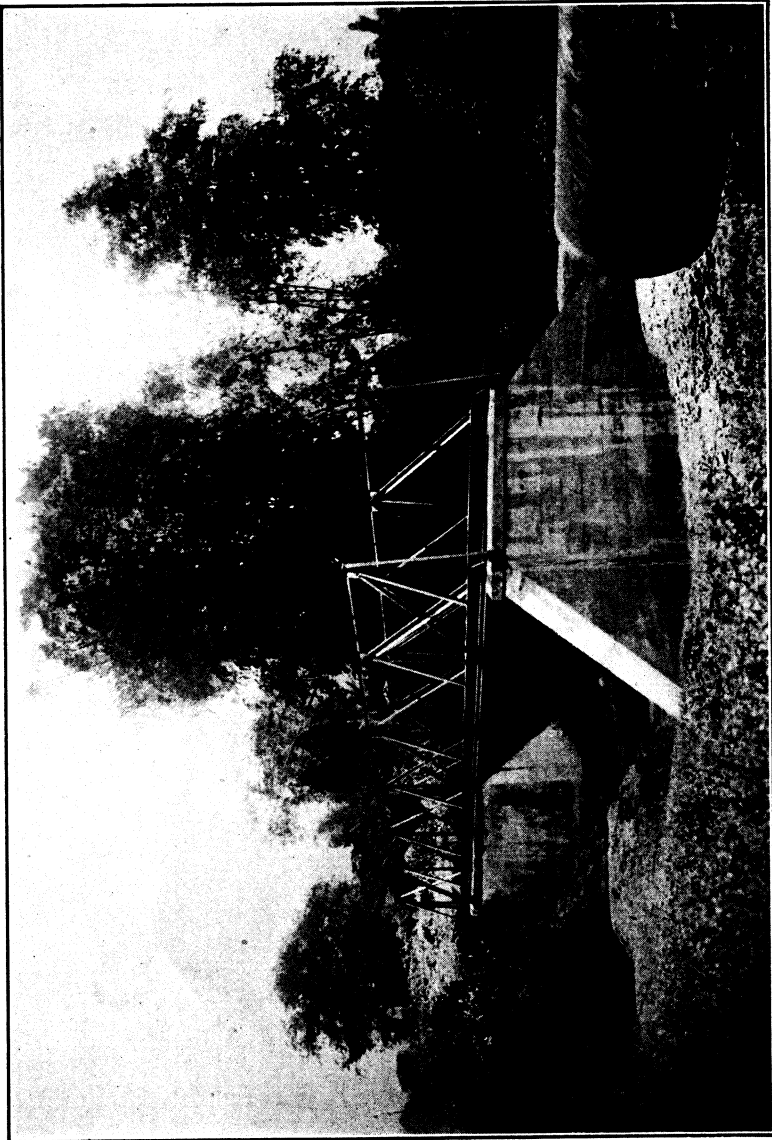
The income for 1907 from all sources (not including the Government's contribution), amounting to ₱2,708,704.12, shows a net gain of ₱228,013.61 as compared with 1906. The principal items showing a gain are:

|                                  |            |
|----------------------------------|------------|
| Real-estate tax .....            | ₱94,589.69 |
| Water rents .....                | 10,449.29  |
| Franchise tax .....              | 12,198.69  |
| Internal-revenue dividends ..... | 60,779.83  |
| Sales of city land.....          | 15,753.33  |

The market receipts show a falling off of nearly 12 per cent, owing, in part, to the suspension of collections at bay and estero landings and at church fiestas, but under new regulations and a better distribution of space in the markets, it is believed that collections for 1908 will exceed those of 1906, and without increasing the stall rents.

The new license ordinance (No. 93) which went into effect April 15, 1907, and repealing all other license ordinances, will materially increase the income from this source. It is hoped and believed that the registration or cedula tax will be increased from ₱1 to ₱2, whereby the revenues of the city will be augmented ₱50,000 annually. Ninety per cent or more of those paying this tax make no other contribution to the city in return for the many benefits received. The city is in urgent need of a larger income to adequately keep pace with its growing needs, and it is believed that the current expenses for the upkeep and maintenance of the several departments of the city can not be further reduced without sacrifice to the best interests of the service.

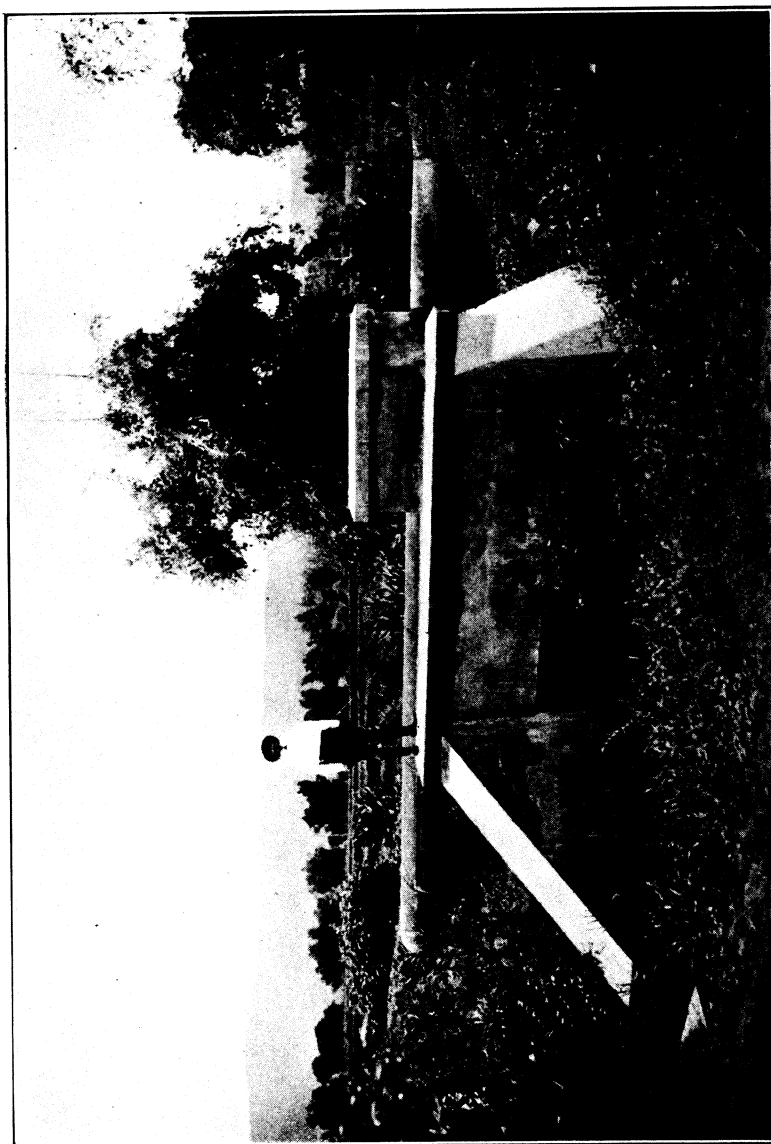
The level reached as between receipts and expenditures for the past year shows a good margin on the side of receipts, which at first thought might subject the Board to criticism for not having expended more for permanent public improvements, but not until at or near the close of the year is it possible to calculate at all closely what the excess balance, if any, may be. Furthermore, it should be remembered that, as a business proposition, a fair balance should be kept in sight for an emergency, and that will be the aim of the Board in the future. Then, too, a considerable contribution from the city revenues will be required to complete the system of distribution pipes throughout the city for the new water supply. since the fund realized by the sale of bonds has been impaired by the imposition of customs duties on every dollar of material imported entering into the work of construction, together with a charge, also imposed by the Insular Government, of from three-quarters to one and one-eight per cent for the transfer of all moneys realized from the sale of the bonds. These are charges that were not counted upon by the chief engineer, and will increase the cost of the work by nearly a quarter of a million pesos. However, the Board contemplates a much larger expenditure for permanent public improvements the coming year than would appear from the



AMPIT RIVER BRIDGE.







CULVERT.



foregoing estimate, which said estimate of ₱46,000 covers only such items as could be definitely determined upon at the time the estimates were under consideration, and before the exact financial status of the city could be calculated. A supplementary estimate calling for the appropriation of an additional ₱100,000 for public works is now under consideration.

EXHIBIT A.—*Recapitulation of expenditures from appropriations for the fiscal year ending June 30, 1907.*

| By whom expended.                                     | Salaries and wages. | Contingent expenses. | Tax refunds. | Public works. | Aggregate.   |
|---|---------------------|----------------------|--------------|---------------|--------------|
| Municipal Board .....                                 | ₱90,327.63          | ₱113,322.74          | -----        | -----         | ₱203,650.37  |
| Law department (office city attorney) .....           | 67,552.26           | 9,234.66             | -----        | -----         | 76,786.92    |
| Office prosecuting attorney .....                     | 30,241.25           | 9,374.48             | -----        | -----         | 39,615.73    |
| Fire department .....                                 | 233,137.88          | 46,098.76            | -----        | -----         | 279,236.64   |
| Department of engineering and public works .....      | 374,984.04          | 469,900.18           | -----        | -----         | 844,884.22   |
| Department of sanitation and transportation .....     | 464,654.13          | 269,819.21           | -----        | -----         | 734,473.34   |
| Department of sewer and waterworks construction ..... | 91,072.70           | 2,023,033.07         | -----        | -----         | 2,114,105.77 |
| Department of assessments and collections .....       | 112,712.87          | 29,991.85            | ₱3,567.82    | -----         | 146,272.54   |
| Department of police .....                            | 744,986.99          | 58,758.07            | -----        | -----         | 803,745.06   |
| Department of city schools .....                      | 195,281.67          | 70,115.50            | -----        | -----         | 265,397.17   |
| Public works, city of Manila .....                    | -----               | -----                | -----        | ₱143,356.03   | 143,356.03   |
| Construction of extension to Luneta .....             | -----               | -----                | -----        | 49,009.03     | 49,009.03    |
| Total .....   | 2,404,951.42        | 3,099,648.52         | 3,567.82     | 192,365.06    | 5,700,532.82 |

|  |               |
|--|---------------|
| Disbursements by city disbursing officer and settlements by Insular Auditor .....  | ₱5,235,769.95 |
| Supplies purchased from Bureau of Supply .....   | 422,511.70    |
| 10 per cent surcharge paid on supplies purchased from Bureau of Supply .....   | 42,251.17     |
| Total gross expenditures .....   | 5,700,532.82  |
| Less expenditures from bond-issue funds sewer and waterworks construction, (₱2,114,105.77), repayments (₱17,701.55), and tax refunds (₱3,567.82) ..... | 2,135,375.14  |
| Total net expenditures .....   | 3,565,157.68  |

EXHIBIT B.—*Public works, city of Manila.*

|   |                         |
|---|-------------------------|
| By balance, in Act No. 830, July 1, 1906.....   | ₱1,104.17               |
| By balance, in Acts Nos. 1421 and 1488, July 1, 1906.....   | 179,721.13              |
| By appropriation, Act No. 1546.....   | 42,148.80               |
| By appropriation, Act No. 1661.....   | 6,130.76                |
|   | 229,104.86              |
| To unexpended balances relinquished.....  | ₱1.28                   |
| To purchase of grounds for and construction of markets in Sampaloc and Paco.....                          | 1,104.17                |
| To construction, including incidental expenses of Ayala Bridge .....                                      | 21,338.15               |
| To repairs to and reconstruction of Pasig River walls below the Bridge of Spain.....                      | 83,013.49               |
| To straightening and widening of streets as may be necessary to meet obligations heretofore incurred..... | 36,901.15               |
| For the erection of permanent street monuments.....   | 999.07                  |
| To unexpended balance.....  | 85,747.55               |
|   | 229,104.86              |
| Total expenditures .....  | Gross. Net.             |
|   | ₱143,356.03 ₱143,356.03 |

EXHIBIT C.—*Department of sewer and waterworks construction.*

|  |               |
|--|---------------|
| By appropriation, Act No. 1547.....  | ₱1,834,000.00 |
| By appropriation, Act No. 1656.....  | 400,000.00    |
| By unexpended balance, Act No. 1422.....   | 144,359.54    |
| By collections and repayments.....   | 209.95        |
| By amount taken credit for, owing to duplicate charges in amount<br>advanced under provisions of Act No. 1323..... | 10,326.64     |
|  | <hr/>         |
|  | 2,388,896.13  |
|  | <hr/>         |

## Expenditures:

|  |              |
|--|--------------|
| Services rendered by disbursing office, Municipal<br>Board, Act No. 1422.....    | ₱3,900.00    |
| Salaries and wages—  |              |
| Classified employees .....   | 58,536.52    |
| Hire of temporary inspectors.....  | 1,821.17     |
| Labor .....  | 26,815.01    |
| Contingent expenses—   |              |
| Purchase and repair of field equipment, fur-<br>niture, supplies, and tools..... | 7,009.23     |
| Advertising, cablegrams, postage, and tele-<br>grams .....                       | 672.70       |
| Printing and binding .....   | 96.72        |
| Official vehicle transportation .....  | 6,174.72     |
| Street-car transportation .....  | 256.00       |
| Maintenance of road along pipe line.....   | 399.34       |
| Expropriation of property sites for sewer<br>pumping station .....               | 17,939.29    |
| Expropriation of property sites along water-<br>supply pipe line.....            | 3,170.63     |
| Payments on contracts for sewer construc-<br>tion .....                          | 1,050,782.40 |
| Payments on contracts for waterworks con-<br>struction .....                     | 834,559.74   |
| Customs duties on sewer-system materials....                                     | 23,992.19    |
| Customs duties on waterworks system ma-<br>terials .....                         | 41,663.87    |
| Construction of storm-water sewers and<br>drains .....                           | 11,691.47    |
| Traveling expenses .....   | 387.50       |
| Telephone service .....  | 1,046.20     |
| Payments of exchange premiums on trans-<br>fers of funds .....                   | 20,386.90    |
| Incidental expenses .....  | 2,804.17     |
| Unexpended balance .....   | 274,790.36   |
|  | <hr/>        |
|  | 2,388,896.13 |
|  | <hr/>        |
| Net expenditures .....   | 2,113,895.82 |

## DEPARTMENT OF ENGINEERING AND PUBLIC WORKS.

The department is organized under the following branches: Street construction and bridges, water supply and sewers, drafting and surveys, building and plumbing inspection, city repair shops (abolished March 31, 1907).

## STREET CONSTRUCTION AND BRIDGES.

The street area within the city limits embraces 91 miles of streets (146.54 kilometers), with a total area under repair of 1,360,354 square meters, of which 17,433 square meters are paved with wood blocks, 34,932 are of granite blocks, and 1,307,989 are of macadam paving. The material for macadam paving is secured by the city from its own quarries at Talim Island, Laguna de Bay, and during the year the stone quarried for city use was 44,891 cubic meters. The transportation to the city is conducted by the launches *Washington* and *Jan* and a fleet of 24 scows, the distance hauled being approximately 27 miles, all water transportation. The cost to the department of crushed stone delivered on the banks of the Pasig River for the year was as follows:

|   |            |            |
|---|------------|------------|
| Quarrying:  |            |            |
| Labor .....                                       | ₱36,907.75 |            |
| Materials and repairs .....                       | 10,371.52  |            |
|   |            | ₱47,279.27 |
| Towing:   |            |            |
| Labor .....                                       | 9,794.65   |            |
| Materials and repairs .....                       | 12,823.58  |            |
|   |            | 22,618.23  |
| Loading and unloading, including repair of scows: |            |            |
| Labor .....                                       | 37,550.70  |            |
| Materials and repairs .....                       | 20,795.05  |            |
|   |            | 58,345.75  |
| Total .....                                       |            | 128,243.25 |
| Unit cost per cubic meter:                        |            |            |
| Quarrying .....                                   |            | 1.05       |
| Towing .....                                      |            | 43         |
| Loading and unloading .....                       |            | 1.09       |
|   |            | 2.57       |

For March this cost was ₱1.98; for April ₱2.56; for May ₱2.24, and for June ₱2.25.

In addition to the 44,891 cubic meters used for street repair, 4,193 cubic meters of crushed stone were sold during the year, the department being credited with ₱10,407.05, showing a net cost to the city of ₱2.40 per cubic meter.

The launches made 315 trips, covering a distance of 17,010 miles. The cost of hauling paving materials from the river bank to street was ₱50,623.77.

## STEAM ROLLERS.

During the year three steam rollers and one traction engine have been used on street work. The average number of days worked by each roller was 261. Each roller has been overhauled and the engine put in good condition. It will be necessary, however, during the coming year to renew the driving wheels and large gears. In order to handle the 1,307,989 square meters of macadam area to advantage it is necessary that one more 15-ton roller be provided. Another roller will do away with the expensive hand rolling required at the present time, owing to the lack of sufficient steam rollers.

The traction engine was used to advantage during the dry season, but was laid up during the rainy season, owing to the excessive wear and tear on the road surface. A careful account kept during the year shows that the cost of hauling per ton-mile with traction engine is 13 cents, as against 40 cents per ton-mile by wagon.

The following statement shows the cost of operating the three road rollers during the year :

|                      |                 |
|----------------------|-----------------|
| One engineer .....   | ₱2,198.00       |
| Two engineers .....  | 2,064.75        |
| Three firemen .....  | 479.00          |
| Three watchmen ..... | 489.00          |
| Coal .....           | 2,273.36        |
| Oil, waste, etc..... | 348.64          |
| Repairs .....        | 1,045.68        |
| <b>Total .....</b>   | <b>8,898.43</b> |

Cost of operating one road roller per day, ₱11.36.

The following statement shows the cost of operating the traction engine during the year :

|                      |                 |
|----------------------|-----------------|
| One engineer .....   | ₱588.00         |
| One fireman .....    | 294.00          |
| One watchman .....   | 294.00          |
| Coal .....           | 817.70          |
| Oil, waste, etc..... | 29.59           |
| Repairs .....        | 879.48          |
| <b>Total .....</b>   | <b>2,902.77</b> |

Cost of operating traction engine per day, ₱21.99.

## SIDEWALKS AND CURBING.

By city ordinance the abutting owner is required to build and the city to maintain sidewalks, but on account of the suspension of this ordinance nothing has been done during the past year in this important branch

of street maintenance; the result is that the walks throughout the city are in a dilapidated, and sometimes dangerous, condition. The city is certainly not in a position to undertake the outlay of the enormous amount necessary for this purpose. In Calle Rosario and the Escolta, where the abutting owners reimbursed the city for the building of the walks, they have reaped the benefit of clean, well-paved streets, and it would appear advantageous to follow the plan throughout the principal business streets. A healthy public sentiment in favor of this method would do much to enhance the beauty of the city.

There were installed 1,477 linear meters of curbing during the year, at an average cost of ₱1.80 per linear meter. This amount should be increased, as the cost of maintaining a paved street is greatly reduced by curbing and guttering.

#### PERMANENT PAVING.

The experience gained by this department in the matter of suitable permanent paving for the principal business streets goes to show that the Australian wood block is a failure, on account of its liability to rot. The substitution of molave, or possibly some other native hardwood, would without doubt give entirely different results, as indicated by the excellent results obtained with molave block paving on the Maura and Blanco bridges. The Blanco in particular probably has the heaviest traffic of any bridge in the city of Manila. During the past year only ₱83.58 were spent in repairing this bridge, and all of this amount on repairing and painting the railing. It is quite possible that there are other Philippine woods which would prove suitable for wood-block paving, if treated with creosote and resin, and arrangements are now being made to determine by actual trial the wearing qualities of some of the softer Philippine woods.

The asphalt paving on the Ayala Bridge has now stood the test of one year's service, and while perhaps too soon to speak with authority on the subject, it appears to be a success. If no sign of rotting is evident at the end of the present rainy season, we may fairly state that the mixture used on this bridge is suitable for secondary business streets on practically level stretches. Its slippery nature, however, would prevent its use on bridge inclines or other steep grades.

The question of permanent paving must be held in abeyance until all underground constructions are completed in any section it is desired to thus pave. It is estimated that an area of nearly 350,000 square meters will cover those streets where permanent paving is desirable for



some years to come. The various classes of suitable paving for these areas are as follows:

| Material.   | Estimated cost per square meter for— |                          |
|---|--------------------------------------|--------------------------|
|   | Construc-<br>tion.                   | Annual main-<br>tenance. |
| Vitrified brick on concrete foundation .....          | ₹11.41                               | ₹1.06                    |
| Molave blocks on concrete foundation .....            | 16.48                                | .95                      |
| Stone blocks on concrete foundation .....             | 9.53                                 | .57                      |
| Asphalt on concrete foundation .....                  | 5.98                                 | 1.07                     |
| Bitulithic, or tar macadam paving .....               | 3.99                                 | .85                      |
| Creosinate block on concrete foundation .....         | 11.50                                | 1.07                     |
| Australian wood block on concrete (actual cost) ..... | 9.89                                 | 2.05                     |

During the year vast damage has been done to the street surface in various portions of the city by the necessary excavations for the new sewer work, and the same conditions must be expected in other portions of the city during the ensuing year. It will probably take some two years after the work is completed before the average street can be brought into its former condition. It must be expected, therefore, that the cost of repairing and maintaining streets will increase, not only directly on account of these excavations but also indirectly from the fact that the traffic is temporarily confined to those portions of the street not disturbed by the excavations. A still more serious damage to street paving in certain districts of the city is due to the lack of a tire law, and some action should be taken to compel the use of tires of a width to be determined by the nature of the vehicle and the load upon it.

The force engaged in street construction and maintenance during the year has been as follows:

|   |     |     |
|---|-----|-----|
| Inspectors .....  | 4   |     |
| Foremen .....   | 26  |     |
| Engineers (road rollers) .....  | 4   |     |
| Firemen .....   | 3   |     |
| Carpenters .....  | 3   |     |
| Masons .....  | 20  |     |
| Blacksmith .....  | 1   |     |
| Diver .....   | 1   |     |
| Storekeeper .....   | 1   |     |
| Painters .....  | 2   |     |
| Laborers .....  | 202 |     |
|   |     | 267 |
| Quarries (including launches and barges) :                                      |     |     |
| Foremen .....   | 11  |     |
| Firemen .....   | 5   |     |
| Carpenters .....  | 9   |     |
| Blacksmith .....  | 1   |     |
| Pilots .....  | 14  |     |
| Laborers .....  | 214 |     |
| Engine tenders .....  | 4   |     |
|   |     | 258 |
| Total average number of employees per day throughout the year<br>has been ..... |     | 525 |
| Average wage per man per day, ₹1.11.  |     |     |

The total amount expended during the year for street construction and maintenance was ₱338,570.21.

#### BRIDGES.

Within the city limits there are 54 bridges and 17 culverts under constant supervision and repair. Of these, 5 are steel bridges, 29 masonry-arch bridges, 16 of wood, 1 with wood floor carried on I-beams, and 2 are I-beams and concrete arches.

In addition to those above enumerated, the suspension bridge crossing the Pasig River is owned and operated by a private corporation, but is subject to inspection by this department.

On August 13, 1906, the Ayala Bridge was opened to public traffic without ceremony. The total cost of the bridge was as follows:

|                                   |                   |
|-----------------------------------|-------------------|
| Contract for substructure .....   | ₱78,714.00        |
| Contract for superstructure ..... | 129,726.00        |
| Inspection and incidentals .....  | 3,686.67          |
| Approaches, bridge proper .....   | 1,528.60          |
| <b>Total .....</b>                | <b>213,655.27</b> |

In addition, the approaches were widened and new retaining walls built at a cost of ₱18,221.31, this being charged to street construction.

The heaviest repairs on bridges during the year were as follows: Chinesco Bridge, reflooring; Palomar Bridge, reflooring and repairing abutments and piers; Azcarraga Bridge, relaying floors and minor repairs; San Sebastian Bridge, reconstruction (completed October 17, 1906; cost, ₱3,105.77); Bridge of Spain, repairs to steel arches, foundation, and sidewalks; Aviles, concrete abutments installed and bridge widened 2.5 meters.

The general inspection of all bridges and supervision of bridge work, which formerly was performed by a special bridge inspector, is now carried on by the district street inspectors in addition to their other duties. The maintenance of wooden bridges throughout the city is a serious and constant source of expense, and as soon as funds are available for the purpose they should be replaced by reënforced-concrete arches. It is proposed, during the ensuing year, to widen Paco Bridge, the Escolta Bridge, and, if possible, the San Marcelino Bridge, all of which are at present too narrow to properly carry the traffic with safety. New bridges are much needed on Calle Moriones over the Reyna Canal, and in Calle Soler over the Trozo and San Jacinto Esteros.

#### ESTERO IMPROVEMENTS.

Owing to lack of appropriation no work has been done toward the improvement, dredging, or cleaning of the esteros of the city, which should be the subject of special appropriation, as, when developed, the cost of water transportation of merchandise within the city limits can be greatly reduced.

## WATER SUPPLY AND SEWERS.

## PUMPING STATION, SANTOLAN.

The equipment of Santolan pumping station, consisting of four pumping engines, was greatly improved during the year by extensive repairs, the principal item of which was the substitution of metal valves for the rubber valves previously used, which resulted in large economy not only in the maintenance but also in the effectiveness of the pumps.

As a result of these repairs a reduction of 28 per cent in the average number of pump-hours per day has been possible. The engines have been speeded up from 22 revolutions per minute to 29 revolutions per minute. The net result of repairs and alterations made in the engines was shown conclusively during the dry season, as at no time was there the slightest danger of any shortage of water.

The total pumpage for the year was 7,471,762 cubic meters by a coal consumption of 2,241 tons, as against 8,443,455 cubic meters for the preceding year by a coal consumption of 2,771 tons; that is, with a reduction in pumpage of 11.5 per cent, the saving of coal was 19.1 per cent.

The boilers gave no trouble during the year, and are in as good condition practically as at the beginning of the year. The buildings and grounds are in first-class condition and present a neat and attractive appearance. The dam is in fairly good condition; the only repairs of any importance needed during the year were made by the contractor for the Montalban dam, on account of slight injuries caused by hauling his material over the dam at Santolan.

The conduit leading from the river to the pump wells was cleaned out and repaired, and a new intake constructed to allow a greater quantity of water to enter the conduit.

A cave-in which threatened serious results occurred in the tunnel leading to the pump wells within a few yards of the station. Prompt action with all the available force of the department averted danger, and the repair was made before there was any danger of shortage of water.

## CONDUIT AND DEPOSITO.

The conduit leading from the pumping station to the Deposito is a construction difficult of access, and in the past has been given little attention. A careful examination made in the early portion of the year showed that portions of the conduit were filled with mud and débris that had caved in from the roof, and that there were many cracks in the masonry through which roots protruded into the conduit. The effect of these conditions was twofold—during the dry season water escaped from the conduit in large quantities and in the rainy season seepage water entered the conduit in large quantities. There was, therefore, a



CULVERT.





TUNNEL HEADING.



shortage of water when it was most needed, and in the wet season polluted water could enter the conduit near the point of consumption, with very little chance of purification through sedimentation and aëration. The tunnel was cleaned from end to end of all débris, and the cracks and other defects repaired, nearly a thousand cubic yards of material being removed during the operation. This work has very materially improved the conditions, as is seen by the fact that the pumpage decreased 11.5 per cent without any diminution of the storage in the Deposito. Incidentally it may be noted that there has been a notable reduction in the prevalence of water-borne diseases since the tunnel was cleaned.

The Deposito grounds are in good condition.

The Santolan road was maintained in as good condition as the traffic demands upon it justify. Its principal use is for hauling coal to the pumping station. The practice of sacking the coal for hauling to Santolan has been discontinued, as it involved an expense of ₱1.75 per ton, or 14 per cent of the original cost, and it is believed that the loss in transportation will not amount to more than 7 per cent.

#### DISTRIBUTION SYSTEM.

The distribution system has been maintained at a high state of efficiency throughout the year. No serious breaks occurred; the chief breaks being occasioned in small mains by the construction of the new sewer works, and these were repaired by the contractor, care being taken by this department that every facility was given for prompt work. Repairs to the number of 1,292 were made during the year by the force of the department, and it is believed that the loss from leakage in mains in Manila is far below the average loss from this cause in cities working under similar conditions. The main 26-inch pipe line was kept in good condition throughout the year.

#### INSTALLATIONS.

Seven installations of pipe, amounting to 2,179 linear meters, were made during the year, at a cost of ₱14,737.55, all of which, with the exception of a 2-inch main on Calle Balic-Balic, are of a permanent nature and will form part of the new distribution system. Four of the installations were in outlying districts, where previously no water mains existed; the other three were installed to increase the flow through existing pipes and cut out dead ends. Twelve new fire hydrants were installed, bringing the total number of modern post fire hydrants up to 265. Repairs and relocations of many hydrants were made to increase efficiency in case of fire. During the month of June serious danger to the fire efficiency was caused by vandals stealing brass lock nuts from the hydrants, and a device has been installed to render this species of robbery more difficult.



## PUBLIC HYDRANTS.

Nine public hydrants were installed during the year for the benefit of the poorer class who can not afford house installations. To decrease the excessive wastage from the existing pipe hydrants, improvements have been introduced by which the hydrants are now automatic.

## SERVICES.

Installations to the number of 272 were made during the year and 69 discontinued, 4 permits issued and 10 discontinued for launch service, etc., leaving a net increase of 197 services, the total on June 30, 1907, being 4,245.

Of these, 100 services are free, being installations to various Government buildings and charitable institutions. A strong effort is being made to have all these installations metered, especially as the showing from those already metered indicates that the consumption has been estimated in the past far below the actual amount used. The free service of water granted to the charitable institutions and Government Bureaus amounts in the aggregate to nearly ₱40,000 per annum.

## METERS.

There are in use in the city of Manila twenty different kinds of water meters, two or three makes predominating. As long as the meter is to be purchased by the consumer, no restriction can be placed upon the style of meter to be installed. Experience has shown, however, that disk meters generally give poor service. As a result of this experience, the importation of disk meters has practically ceased, and, as a consequence, it is almost impossible to secure new disks to repair broken meters of this type, which compels the owner to purchase a new meter of another type, a hardship upon the owner. During the year, 883 meters were repaired in the water-supply shops.

## SEWERS.

There were expended during the year on the maintenance, repair, and cleaning of existing sewers ₱6,019.56, as against ₱16,295.60 for the preceding year. This reduction of cost is due to the fact that many of the old sewers have been replaced during the last two years with properly designed and constructed storm-water drains, which so far have not required expense for maintenance. There is, however, much yet to be done in rebuilding the old sewers, inadequate and badly built. One sewer in particular, which will certainly require extensive alteration in the near future, is that in the moat—a temporary structure which can not last much longer. New storm-water drains were constructed during the year at a cost of ₱11,937.40, of which amount ₱3,776.36 was paid for from cleaning and repair funds and the remainder from the new sewer-construction funds.

Work on private sewers to the amount of ₱224.05 was done by the city and paid for by the owners.

#### BOILER INSPECTION.

The number of boilers inspected during the year was 158, as compared with 186 in 1906, a decrease of 28. The horsepower increased from 8,548 to 10,219. The fees for inspection amounted to ₱1,054. The expense in connection with this service amounted to ₱2,294.27, or more than twice the amount of fees received for this work. The decrease in cost of boiler inspection is due to the fact that the boiler inspector now devotes nearly half his time to the management of the Santolan pumping station, combining two offices in one.

#### PLUMBING INSPECTION.

The conditions under which plumbing is done in the city of Manila have changed radically during the year. The Sanitary Code (Ordinance No. 86) became effective on January 1, 1907, under the provisions of which rules covering all plumbing work are laid down in detail, and on April 1, 1907, Ordinance No. 93 became effective, which places all plumbing work under the supervision of duly licensed plumbers whose qualifications are passed upon by a board of three examiners. The result of the passing of these two ordinances is already visible in the great improvement in sanitary installations. No work of sanitary installation can be commenced without permit being secured by a master plumber, and final certificate of inspection must be issued before the work is accepted. As a natural consequence all plumbing done in the city is completely under the control of the department. The installations made during the year were covered by 528 permits, 477 certificates for work completed being issued; 166 plans for new work were approved; 250 tests of plumbing systems applied; 330 vaults of various descriptions constructed, and fixtures to the number of 2,988 installed. The approximate cost to house owners of the work thus done was ₱130,000; this exclusive of plumbing done by city, Insular, and military governments.

#### DRAFTING AND SURVEYS.

With a decrease in the amount available for public works, the demand upon the office of drafting and surveys has been limited principally to the routine work of adjusting street lines and grades and checking descriptions of property entered in the Court of Land Registration. More time was therefore available than hitherto for the preparation of district plans of the city, and street maps of the districts of San Nicolas, Binondo, Santa Cruz, Quiapo, San Miguel, Ermita, Malate, and Paco have now been compiled complete on a scale of 1 to 1,000, and the districts of Sampaloc and Tondo are partially complete. The preparation of plans of the outlying districts are being compiled as rapidly as possible. In

addition to this city map of scale of 1 to 1,000, detail block maps on a scale of 1 to 400 have been prepared, covering the districts of San Nicolas, Binondo, Santa Cruz, and Quiapo, on which it is proposed eventually to show all details of house lines, service mains, conduits, sewers, and public-utility constructions.

A very important work started during the year was the location of permanent street monuments, for which purpose ₱1,000 was allotted. A cheap form of concrete monument was adopted, with an iron spike for centering the station point. These monuments are located on a range line 50 centimeters from the approved building lines and have already been installed in the principal streets of San Nicolas, south Tondo, and Binondo, and the most important streets of other districts throughout the city. This work was necessarily stopped when the appropriation for the same had been expended. It is anticipated that a more liberal appropriation will be made for this purpose during the ensuing year, as the work is of great importance, not only to the definite location of street lines upon the ground, but also as a basis upon which to establish all surveys of private property throughout the city for registration in the Land Court.

The driveways in the Cementerio del Norte have been laid out as required by the development of the cemetery, both as to line and grade.

The only sums expended for public work during the year, exclusive of street monuments, were devoted to the purchase of lands expropriated for street widening and straightening, the necessary surveys for which, accompanied by their proper technical description, were made by this department.

#### BUILDING INSPECTION.

This office is charged with the inspection of all buildings, public and private, throughout the city, and the maintenance and repair of buildings belonging to the municipality. All the city buildings are now in good condition with one or two exceptions noted below. Most of the market buildings were painted during the year, as was also the city hall and the high school building on Calle Victoria. The Cuartel Meisic was converted into a school building capable of accommodating 1,750 scholars, a portion being reserved for a police station.

The only exceptions to city buildings in good condition at the close of the fiscal year are the hose tower of the Santa Cruz fire station, which will have to be removed and rebuilt before long, and the Paco fire station, on which extensive repairs and alterations were commenced just prior to the close of the fiscal year. This building will be converted into a modern fire station by the addition of a second story for the accommodation of the firemen, leaving the main building below for the exclusive use of the fire apparatus.

*Statement of cost of repairs to public buildings.*

## Department of city schools:

## School—

|                                      |          |          |
|--------------------------------------|----------|----------|
| Calle Gunao .....                    | ₱40.58   |          |
| Calle Meisic .....                   | 301.53   |          |
| Calle Gagalañgin, Tondo .....        | 242.77   |          |
| Calle Alix, Sampaloc .....           | 1.75     |          |
| Paco Estero .....                    | 1.00     |          |
| Plaza Santa Ana, Sampaloc.....       | 27.59    |          |
| Plaza Malate .....                   | 2.20     |          |
| Calle Madrid, San Nicolas.....       | 130.98   |          |
| Calle Lacoste .....                  | 2.40     |          |
| No. 118, Real, Ermita.....           | 5.41     |          |
| American, Calle Nozaleda .....       | 32.67    |          |
| No. 431 Calle Santa Mesa.....        | 55.28    |          |
| Domestic Science, San Nicolas .....  | 6.87     |          |
| Calle Diaz .....                     | 34.64    |          |
| Santa Ana .....                      | 17.20    |          |
| No. 205, Calle Real, Intramuros..... | 6.29     |          |
| No. 608, Calle Iris .....            | 43.18    |          |
| No. 63, Calle Noria .....            | 9.46     |          |
| Calle Cervantes .....                | 64.10    |          |
| No. 568, Calle Lemery.....           | 1.25     |          |
| No. 569, Calle Lemery.....           | 16.88    |          |
| No. 187, Calle San Marcelino.....    | 13.16    |          |
| Calle Alejandro, Sampaloc .....      | 30.04    |          |
| No. 72, Asunción .....               | 217.65   |          |
| Manila High School .....             | 2,649.08 |          |
| General repairs .....                | 1,959.99 |          |
|                                      |          | 5,913.95 |

## Police department:

## Station—

|  |        |        |
|--|--------|--------|
| No. 1, Luneta .....                      | 129.04 |        |
| No. 2, Meisic .....                      | 253.58 |        |
| No. 4, Sampaloc.....                     | 170.20 |        |
| No. 5, Tondo .....                       | 25.49  |        |
| No. 6, Paco .....                        | 160.30 |        |
| Calle San Pedro, No. 41.....             | 21.36  |        |
| Calle Anloague, No. 142.....             | 4.75   |        |
| Old police station, San Fernando.....    | 3.33   |        |
| Old river and harbor police station..... | 7.94   |        |
|  |        | 775.99 |

## Fire department:

## Station—

|                          |          |          |
|--------------------------|----------|----------|
| No. 1, San Nicolas ..... | 1,993.26 |          |
| No. 2, Meisic .....      | 2,258.98 |          |
| No. 3, Paco .....        | 177.15   |          |
| No. 4, Intramuros .....  | 101.87   |          |
| No. 5, Tondo .....       | 305.00   |          |
| No. 6, Tondo .....       | 1,449.80 |          |
| No. 7, San Lazaro .....  | 36.25    |          |
|                          |          | 6,322.37 |

*Statement of cost of repairs to public buildings—Continued.*

## Department of sanitation and transportation:

|                                 |           |           |
|---------------------------------|-----------|-----------|
| General repairs .....           | P2,818.62 |           |
| City stable No. 1.....          | 216.93    |           |
| City stable No. 2.....          | 609.36    |           |
| City pound .....                | 1,364.17  |           |
| Palomary crematory .....        | 294.69    |           |
| City market—                    |           |           |
| Divisoria .....                 | 4,028.34  |           |
| Quinta .....                    | 305.86    |           |
| Arranque .....                  | 1,028.87  |           |
| Herran .....                    | 652.56    |           |
| Sampaloc .....                  | 772.46    |           |
| Anda .....                      | 1.50      |           |
| Matadero (slaughterhouse) ..... | 1,309.38  |           |
|                                 |           | 13,402.74 |

## Department of engineering and public works:

|                       |        |          |
|-----------------------|--------|----------|
| General repairs ..... | 958.36 |          |
| City shops .....      | 54.89  |          |
|                       |        | 1,013.25 |

## Miscellaneous buildings:

|  |           |           |
|--|-----------|-----------|
| City hall .....                            | 625.37    |           |
| Court of First Instance (Audiencia) .....  | 331.81    |           |
| Tenement house .....                       | 27.57     |           |
| Chinese tribunal, Calle San Fernando.....  | 172.96    |           |
| Meisie, public school, police station..... | 18,454.03 |           |
| Band stand—                                |           |           |
| Luneta .....                               | 269.53    |           |
| Binondo .....                              | 69.77     |           |
|  |           | 19,951.04 |

Total ..... 47,379.34

## BUILDING PERMITS.

Permits were issued during the year as follows:

| Item.              | Permits. | Value.    |
|--------------------|----------|-----------|
| Strong materials:  |          |           |
| New buildings..... | 809      | P958,097  |
| Repairs.....       | 946      | 243,569   |
| Light materials:   |          |           |
| New buildings..... | 1,119    | 150,713   |
| Repairs.....       | 3,079    | 146,337   |
| Total .....        | 5,953    | 1,498,716 |

## CITY SHOPS.

On March 31, 1907, the city repair shops were transferred to the Insular Government and consolidated with the prison shops at Bilibid. The carpenter and water-supply shops were retained by the department, it being impracticable to carry on the work of maintaining the city

buildings and water-supply distribution system with prison labor. The buildings vacated by the transfer of the shops to Bilibid were turned over to the Bureau of Education for use by the School of Arts and Trades. During the nine months' operation of the shop the value of work turned out was ₱60,271.70, consisting of repairs to all equipment of the department of engineering and public works, the fire department, department of sanitation and transportation, and miscellaneous work of the several city departments. The department finds itself considerably handicapped through lack of a blacksmith and ironworking shop for emergency work. The cost of repair and maintenance of city buildings has been considerably increased through having to saw and dress lumber by hand.

## GENERAL OFFICE.

The force of American clerks and inspectors has been gradually replaced by Filipinos, and on June 30, from a force of seven American clerks only two remain—the chief clerk and the stenographer. The entire force of American building inspectors has been replaced by Filipinos.

During the year 1,490 vouchers were prepared for payment, representing an expenditure of ₱3,300,692.09, under 97 headings and subdivided accounts. The records of the department are in excellent condition and readily accessible for reference. On June 30 the property division was transferred from Arroceros shops to the general office, and the responsibility and accountability for all the property of the department placed upon the chief clerk. The value of property on hand at the close of business June 30 was ₱426,554.08, exclusive of buildings.

## BRIDGES.

The following table gives the work performed on bridges during the year:

*Work on bridges.*

| Bridge.                | Cost.     | Bridge.                    | Cost.      |
|------------------------|-----------|----------------------------|------------|
| Binondo lift .....     | ₱6,189.32 | Santa Lucia .....          | 111.36     |
| San Rafael .....       | 174.44    | Postigo .....              | 82.56      |
| Chinesco .....         | 1,440.98  | Paco .....                 | 68.66      |
| Gandara .....          | 39.68     | Azcarraga .....            | 709.93     |
| Aduana culvert .....   | 147.23    | San Marcelino .....        | 6.11       |
| Palomar .....          | 3,418.82  | Jolo .....                 | 137.64     |
| Maytubig .....         | 11.56     | San Sebastian .....        | 3,692.21   |
| San Juan .....         | 44.52     | Santa Cruz .....           | 892.50     |
| Mendoza .....          | 33.28     | Cementerio del Norte ..... | 404.93     |
| Palumpong .....        | 8.82      | New Ayala .....            | 212,126.67 |
| Tanduay .....          | 16.73     | Iris .....                 | 71.45      |
| Ayala .....            | 1,528.60  | Marques de Comillas .....  | 12.34      |
| San Luis .....         | 103.01    | Pandacan .....             | 2.80       |
| Las Damas .....        | 25.29     | Sangleyes culvert .....    | 226.60     |
| Carballo .....         | 157.11    | Cubas .....                | 10.60      |
| Victoria culvert ..... | 131.74    | Alix .....                 | 91.27      |
| Malusac .....          | 7.61      | Gunao .....                | 95.11      |
| Gastambide .....       | 147.84    | Marquez .....              | 73.83      |

*Work on bridges—Continued.*

| Bridge.               | Cost.     | Bridge.              | Cost.      |
|-----------------------|-----------|----------------------|------------|
| Spain .....           | P2,040.93 | Orda .....           | P110.49    |
| Pretil .....          | 836.40    | San Blas .....       | 171.98     |
| Convalecencia .....   | 318.35    | Crematory .....      | 14.02      |
| San Miguel .....      | 92.30     | Escolta .....        | 86.42      |
| San Antonio .....     | 57.76     | Blanco .....         | 83.58      |
| Aviles .....          | 454.55    | Maura .....          | 194.82     |
| Latorre .....         | 94.52     | Arlegui .....        | 34.48      |
| Prim .....            | 75.00     | San Anton .....      | 43.27      |
| Bitas .....           | 65.38     | Santa Mesa .....     | 28.64      |
| Maypajo .....         | 90.96     | Vergara .....        | 47.93      |
| Magdalena .....       | 248.82    | Herran culvert ..... | 3.72       |
| Sacristia .....       | 206.22    | San Lazaro .....     | 5.39       |
| Isaac Peral .....     | 366.02    | Miscellaneous .....  | 469.11     |
| San Felipe Nery ..... | 6.77      |                      |            |
| Luengo .....          | 10.50     | Total .....          | 238,201.48 |

NOTE.—The general inspection of all bridges and the supervision of bridge work has been performed by the district street inspectors in addition to their other duties.

*Summary of work performed by the office of street construction and bridges for the fiscal year ending June 30, 1907.*

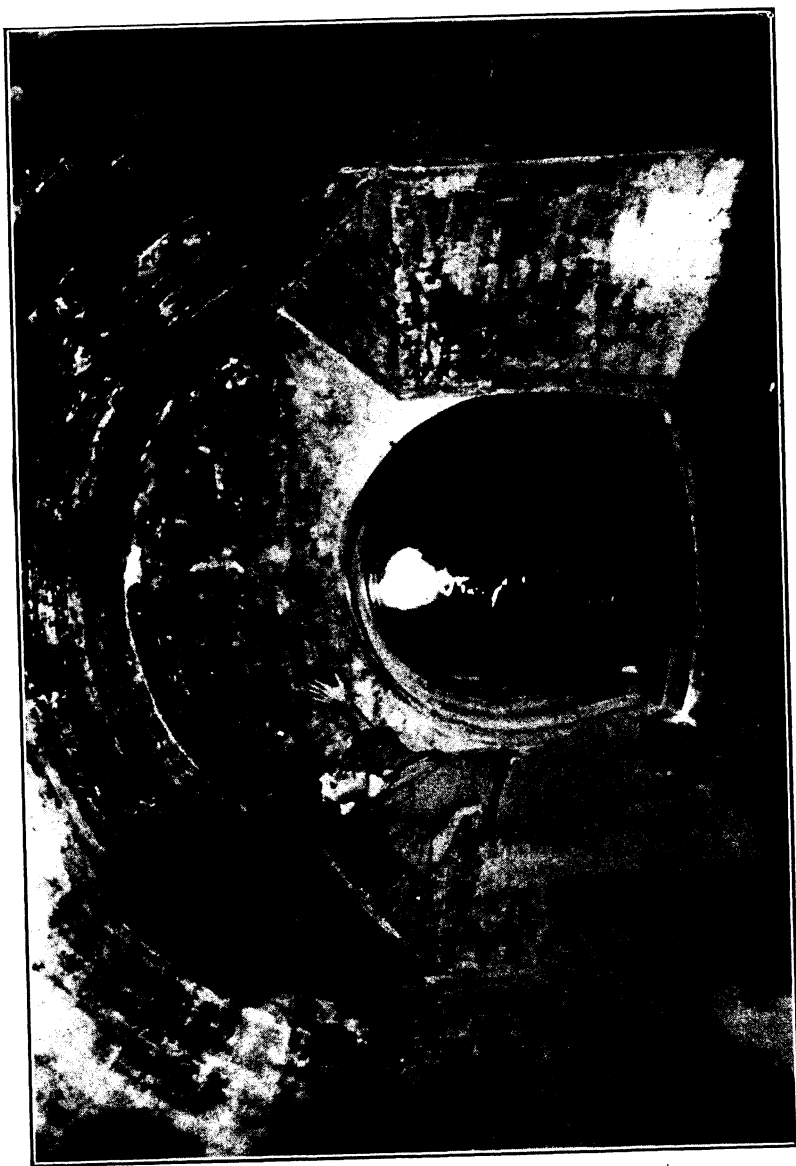
|  |                   |            |
|--|-------------------|------------|
| Streets macadamized.....                       | square meters.... | 111,179.75 |
| Streets resurfaced .....                       | do.....           | 87,554.95  |
| Streets patched .....                          | do.....           | 127,316.28 |
| Streets graveled .....                         | do.....           | 41,253.50  |
| Stone pavement laid.....                       | do.....           | 12,251.30  |
| Wood pavement laid.....                        | do.....           | 4,804.40   |
| Sidewalk laid .....                            | do.....           | 2,357.55   |
| Platform, stone .....                          | do.....           | 16         |
| Filling .....                                  | cubic meters....  | 23,021.81  |
| Excavation .....                               | do.....           | 4,560.35   |
| Gutters laid .....                             | linear meters.... | 26,848.05  |
| Box gutters laid .....                         | do.....           | 148        |
| Curb laid .....                                | do.....           | 1,477.52   |
| Drains .....                                   | do.....           | 1,572      |
| Culverts .....                                 | do.....           | 28.60      |
| Stone retaining border.....                    | do.....           | 2,042      |
| Building wall .....                            | do.....           | 722.28     |
| Building fence .....                           | do.....           | 112        |
| Construction tar macadam .....                 | square meters.... | 2,670      |
| Permits issued .....                           | number....        | 1,295      |
| Broken stone from quarry.....                  | cubic meters....  | 44,891     |
| Gravel and sand obtained from Pasig River..... | do.....           | 6,278      |
| Gravel and sand purchased by contract.....     | do.....           | 7,409.07   |



LINING TUNNEL WITH CONCRETE.







TERMINAL CHAMBER.





TERMINAL LINING.



## STREET CONSTRUCTION AND BRIDGES.

The general expenses of this office is shown in the following table:

|  |                   |
|--|-------------------|
| Labor .....  | ₱175,740.89       |
| Printing and binding .....   | 28.18             |
| Purchase coal, oil, and waste .....  | 19,295.36         |
| Purchase and supply of materials for maintenance of streets and roads .....        | 36,450.84         |
| Purchase of tools and miscellaneous supplies .....                                 | 1,691.28          |
| Purchase pump and boiler, rock quarry .....  | 1,842.73          |
| Repairs to bridges and operation of Binondo lift bridge .....                      | 24,889.97         |
| Repairs to launches and equipment made at city shops .....                         | 22,312.15         |
| Repairs to launches and equipment outside city shops .....                         | 6,397.25          |
| Salaries .....   | 21,524.20         |
| Transportation, vehicle (includes ₱4,540 for transportation used on bridges) ..... | 55,339.77         |
| <b>Total .....</b>   | <b>365,512.62</b> |

*Pumpage and consumption of water and quantity of coal consumed.*

| Month.                      | Pumpage per month. <sup>a</sup> | Consumption of water— <sup>b</sup> |                                  | Coal consumed—               |                                |
|-----------------------------|---------------------------------|------------------------------------|----------------------------------|------------------------------|--------------------------------|
|                             |                                 | Per month.                         | Per capita per day. <sup>c</sup> | Per month.                   | Per 1,000 cubic meters pumped. |
| <b>1906.</b>                | <i>Cubic meters.</i>            | <i>Cubic meters.</i>               | <i>U. S. gallons.</i>            | <i>Tons.</i>                 | <i>Ton.</i>                    |
| July .....                  | 575,451                         | 581,851                            | 22.54                            | 206.75                       | 0.36                           |
| August .....                | 570,041                         | 572,341                            | 22.2                             | 194.86                       | .36                            |
| September .....             | 557,154                         | 554,954                            | 24.4                             | 180.65                       | .32                            |
| October .....               | 596,295                         | 593,395                            | 23.1                             | 180.15                       | .30                            |
| November .....              | 629,817                         | 637,817                            | 25.52                            | 183.90                       | .29                            |
| December .....              | 629,592                         | 644,492                            | 24.97                            | 173.95                       | .28                            |
| <b>1907.</b>                |                                 |                                    |                                  |                              |                                |
| January .....               | 639,240                         | 637,390                            | 24.17                            | 166.12                       | .25                            |
| February .....              | 611,423                         | 603,223                            | 25.76                            | 175.89                       | .28                            |
| March .....                 | 627,398                         | 610,198                            | 23.62                            | 184.98                       | .28                            |
| April .....                 | 671,416                         | 673,816                            | 24.70                            | 196.30                       | .29                            |
| May .....                   | 718,192                         | 719,292                            | 27.87                            | 205.75                       | .29                            |
| June .....                  | 646,243                         | 650,243                            | 26                               | 191.75                       | .30                            |
| <b>Total .....</b>          | <b>7,471,762</b>                | <b>7,479,012</b>                   |                                  | <sup>d</sup> <b>2,241.05</b> |                                |
| <b>Average .....</b>        | <b>622,647</b>                  | <b>623,251</b>                     | <b>25.55</b>                     | <b>186.75</b>                | <b>.30</b>                     |
| <b>Average 1905-6 .....</b> | <b>703,621</b>                  | <b>704,049</b>                     | <b>28</b>                        |                              |                                |

<sup>a</sup> Cylinder displacement with estimated slip of 40 per cent.

<sup>b</sup> Estimated at reservoir.

<sup>c</sup> Based on a population of 220,000.

<sup>d</sup> Coal consumed in 1906, 2,771.23 tons; coal consumed in 1907, 2,241.05 tons; saving in coal consumption, 530.18 tons. Cost of coal delivered at pumping station, about, ₱17 per ton; economy effected in reduced coal consumption, about ₱9,000.

*Collectible revenues.*

| Month.              | Water service. | Plumbing. | Fire plugs. | Fines.   | Miscellaneous. | Total.     |
|---------------------|----------------|-----------|-------------|----------|----------------|------------|
| <b>1906.</b>        |                |           |             |          |                |            |
| July                | P17,808.52     | P540.11   | P67.99      | P294.00  |                | P18,710.62 |
| August              | 17,804.66      | 717.85    | 67.99       |          |                | 18,590.50  |
| September           | 16,150.48      | 647.05    | 67.99       |          |                | 16,865.52  |
| October             | 17,554.12      | 784.80    | 66.00       |          |                | 18,404.92  |
| November            | 15,230.66      | 909.86    | 63.00       | 342.00   |                | 16,545.52  |
| December            | 15,876.56      | 790.37    | 62.57       |          |                | 16,729.50  |
| <b>1907.</b>        |                |           |             |          |                |            |
| January             | 16,059.96      | 380.60    | 62.00       | 270.00   | P37.72         | 16,810.28  |
| February            | 14,988.12      | 738.91    | 62.00       |          |                | 15,739.03  |
| March               | 16,807.85      | 809.36    | 62.00       |          |                | 17,679.21  |
| April               | 19,316.04      | 1,033.49  | 62.00       | 306.00   |                | 20,717.53  |
| May                 | 19,263.17      | 1,190.00  | 62.00       |          |                | 20,515.17  |
| June                | 18,504.91      | 904.50    | 62.00       |          |                | 19,471.41  |
| Total (*)           | 205,315.05     | 9,446.90  | 767.54      | 1,212.00 | 37.72          | 216,779.21 |
| Average             | 17,109.59      | 787.24    | 63.96       |          |                | 18,064.94  |
| Total previous year | 200,968.98     | 8,972.48  | 954.93      | 1,054.00 | 2,612.06       | 214,562.45 |

\*The actual amount collected for water supply in 1905-6 was P210,738.69 and in 1906-7, P221,187.98 a gain for the year of P10,449.29.

*Water service in operation, by districts.*

| Status of service.      | Intramuros. | Binondo. | Santa Cruz. | Tondo. | Quiapo. | San Miguel. | Sampaloc. | Dilao. | Ermita. | Malate. | San Nicolas. | Water boats. | Specials. | Total. |
|-------------------------|-------------|----------|-------------|--------|---------|-------------|-----------|--------|---------|---------|--------------|--------------|-----------|--------|
| In operation July, 1906 | 350         | 529      | 644         | 228    | 329     | 141         | 380       | 112    | 474     | 173     | 650          | 28           | 4         | 4,042  |
| In operation June, 1907 | 363         | 547      | 675         | 253    | 339     | 144         | 427       | 116    | 495     | 168     | 686          | 24           | 2         | 4,239  |
| New installations       | 17          | 22       | 41          | 31     | 14      | 3           | 57        | 5      | 24      | 16      | 42           | 2            | 2         | 276    |
| Discontinued            | 4           | 4        | 10          | 6      | 4       |             | 10        | 1      | 3       | 21      | 6            | 6            | 4         | 79     |
| Increase over 1906      | 13          | 18       | 31          | 25     | 10      | 3           | 47        | 4      | 21      | 5       | 36           | 4            | 2         | 197    |

*Private building construction and repair, by districts.*

| District.              | Strong materials. |           |          |         | Light materials. |         |          |         |
|------------------------|-------------------|-----------|----------|---------|------------------|---------|----------|---------|
|                        | New buildings.    |           | Repairs. |         | New buildings.   |         | Repairs. |         |
|                        | Permits.          | Value.    | Permits. | Value.  | Permits.         | Value.  | Permits. | Value.  |
| Binondo                | 113               | P35,385   | 152      | P48,820 |                  |         |          |         |
| Ermita                 | 49                | 112,675   | 70       | 17,015  |                  |         |          |         |
| Intramuros             | 33                | 7,660     | 67       | 49,028  |                  |         |          |         |
| Malate                 | 76                | 67,270    | 28       | 7,655   | 184              | P25,390 | 295      | P13,177 |
| Paco                   | 12                | 19,000    | 19       | 5,805   | 61               | 6,965   | 226      | 10,320  |
| Pandacan               | 6                 | 51,500    | 1        | 500     | 21               | 2,610   | 57       | 2,446   |
| Sampaloc               | 94                | 118,620   | 96       | 20,836  | 267              | 42,305  | 559      | 27,923  |
| Santa Ana              | 11                | 46,750    | 2        | 450     | 44               | 7,725   | 125      | 5,608   |
| Santa Cruz             | 151               | 165,365   | 148      | 23,843  | 164              | 23,525  | 491      | 26,513  |
| San Nicolas            | 40                | 64,782    | 165      | 25,760  |                  |         |          |         |
| San Miguel             | 58                | 61,130    | 45       | 7,375   | 1                | 20      |          |         |
| Quiapo                 | 44                | 53,890    | 89       | 30,193  |                  |         | 1        | 75      |
| Tondo                  | 122               | 154,070   | 64       | 6,289   | 377              | 42,173  | 1,325    | 60,275  |
| Total fiscal year 1907 | 809               | 958,097   | 946      | 243,569 | 1,119            | 150,713 | 3,079    | 146,337 |
| Total fiscal year 1906 | 973               | 1,860,801 | 972      | 297,146 | 1,885            | 248,973 | 2,149    | 135,668 |
| Difference             | 164               | 902,704   | 26       | 53,577  | 766              | 98,260  | 930      | 10,669  |

*Expenditures of the department of engineering and public works during the fiscal year 1907.*

## SALARIES AND WAGES.

|   |            |             |
|---|------------|-------------|
| Salaries, building and plumbing inspection..... | ₱19,834.53 |             |
| Labor, building and plumbing inspection:        |            |             |
| Temporary building inspectors.....              | ₱1,643.00  |             |
| Market laborers .....                           | 5,681.60   |             |
| Janitors, public buildings.....                 | 4,315.75   |             |
|   |            | 11,640.35   |
| Salaries, drafting and surveys.....             |            | 10,712.44   |
| Labor, drafting and surveys.....                |            | 10,021.31   |
| Salaries, general office.....                   |            | 27,563.97   |
| Salaries, street construction and bridges.....  |            | 21,524.20   |
| Labor, street construction and bridges:         |            |             |
| Launches .....                                  | 8,530.15   |             |
| Streets .....                                   | 94,184.52  |             |
| Quarry .....                                    | 35,059.42  |             |
| Stone scows .....                               | 37,966.80  |             |
|   |            | 175,740.89  |
| Salaries, repair shops.....                     |            | 19,980.41   |
| Labor, repair shops.....                        |            | 5,006.40    |
| Salaries, water supply and sewers.....          |            | 30,180.53   |
| Labor, water supply and sewers:                 |            |             |
| Shops .....                                     | 22,089.03  |             |
| Deposito .....                                  | 4,231.51   |             |
| Pumping station .....                           | 15,445.03  |             |
| Miscellaneous .....                             | 505.50     |             |
| Sewers .....                                    | 119.00     |             |
|   |            | 42,390.07   |
| Labor moving and handling property.....         |            | 388.94      |
|   |            | ₱374,984.04 |

## CONTINGENT EXPENSES.

|   |           |            |
|---|-----------|------------|
| Repairs to bridges and operation of Binondo lift bridge ..... | 24,506.87 |            |
| Repairs and maintenance public buildings:                     |           |            |
| Maintenance .....   | 2,474.18  |            |
| Repairs .....   | 29,130.13 |            |
|   |           | 31,604.31  |
| Purchase coal, oil, and waste:                                |           |            |
| Water supply and sewers.....                                  | 38,814.80 |            |
| Street construction and bridges.....                          | 19,295.36 |            |
| City shops .....  | 583.99    |            |
|   |           | 58,694.15  |
| Electrical service:   |           |            |
| Lighting streets and harbor.....                              | 88,100.68 |            |
| Public buildings .....  | 23,371.98 |            |
|   |           | 111,472.66 |



*Expenditures of the department of engineering and public works, etc.—Cont.*

## CONTINGENT EXPENSES—continued.

|  |           |            |
|--|-----------|------------|
| Purchase of minor electrical supplies.....   | 2,869.60  |            |
| Traveling expenses .....   | 1,597.30  |            |
| Repairs, Cuartel Meisie.....   | 10,376.58 |            |
| Purchase and repair of office furniture and supplies.....  | 1,917.33  |            |
| Postage and telegrams, cablegrams, advertising, and<br>incidentals .....   | 11.60     |            |
| Printing and binding:  |           |            |
| General office .....   | 282.50    |            |
| Drafting and surveys.....  | 125.43    |            |
| Water supply and sewers.....   | 746.69    |            |
| Street construction and bridges.....   | 28.18     |            |
| Building and plumbing inspection.....  | 283.22    |            |
| City shops .....   | 8.75      |            |
|  |           | 1,474.77   |
| Repairs to pumping machinery and boilers.....  | 1,321.30  |            |
| Purchase pump and boiler, rock quarry.....   | 1,842.73  |            |
| Rents:   |           |            |
| School buildings .....   | 2,400.00  |            |
| Lands .....  | 6,095.34  |            |
|  |           | 8,495.34   |
| Repairs launches and equipment made at city shops....  | 60,271.70 |            |
| Repairs launches and equipment not made at city shops  | 6,397.25  |            |
| Repairs Santolan road and haulage supplies to pumping<br>station .....   | 2,558.42  |            |
| Repairs to and cleaning sewers and drains.....   | 8,908.36  |            |
| Purchase and supply materials for maintenance streets<br>and roads .....   | 35,780.64 |            |
| Telephone service .....  | 4,078.26  |            |
| Purchase of tools and miscellaneous supplies:  |           |            |
| Water supply and sewers.....   | 14,926.53 |            |
| Street construction and bridges.....   | 1,691.28  |            |
| City shops .....   | 264.91    |            |
| Building and plumbing inspection.....  | 5.78      |            |
|  |           | 16,888.50  |
| Street-car transportation .....  | 1,120.00  |            |
| Official vehicle transportation:   |           |            |
| General office.....  | 951.55    |            |
| Drafting and surveys.....  | 4,852.90  |            |
| Water supply and sewers.....   | 8,615.70  |            |
| Street construction and bridges.....   | 55,339.77 |            |
| Building and plumbing inspection.....  | 1,625.00  |            |
| City shops .....   | 3,100.27  |            |
|  |           | 74,485.19  |
| Sum total of items charged by Auditor during fiscal<br>year 1905-6 not previously charged against stated<br>appropriation, but taken up as a charge against<br>appropriation Act No. 1546..... | 3,227.32  |            |
| Grand total .....  |           | 469,900.18 |
|  |           | 844,884.22 |

*Expenditures, fiscal year 1907, for public works, city of Manila.*

|  |            |
|--|------------|
| Purchase of grounds and construction of markets, Sampaloc and Paco.. | ₱1,104.17  |
| Erection of permanent street monuments.....                          | 999.07     |
| Repair and reconstruction, Pasig River walls:                        |            |
| Construction .....   | ₱79,730.50 |
| Inspection .....   | 3,245.11   |
| Incidentals .....  | 37.88      |
|  | 83,013.49  |
| Straightening and widening of streets.....                           | 36,901.15  |
| Luneta Extension .....   | 49,009.03  |
| Ayala Bridge construction and incidental expenses.....               | 21,338.15  |
| Total .....  | 192,365.06 |

**POLICE DEPARTMENT.**

This department, in its reduced condition, is barely able to keep up with the necessary police work. It is not sufficiently large to be flexible and to be capable of properly covering the widely scattered districts approaching the city limits, and on numerous occasions, owing to the frequent and largely attended processions, or for other reasons, it has been necessary to draw in the police to such an extent that for the time being other districts have been without adequate protection. In the entire districts of Ermita and Malate from the Walled City to Pasay there are not more than five men available for regular duty on the streets.

Under these circumstances it is not surprising that rateros or petty thieves and porch climbers have occasionally operated in gangs with some success. Ermita and Malate are populated largely by Americans, and as a class they are careless in closing or locking doors and windows, perhaps on account of the warm climate and the desire for ventilation. Many doors are secured only at rare intervals or during storms. Little or no care is taken in identifying servants when received for employment, and frequently complainants are able to give nothing more than a Christian name and an indefinite and wholly unsatisfactory description.

The numerous esteros, bridged only at long intervals, and the large unimproved areas sometimes devoted to agriculture, and usually practically impassable, are great obstacles in patrol work, and the territory which can be covered by the average man in this city is therefore much reduced. Easy communication, which is a characteristic of American cities, means increased protection without an increased force, and while a patrolman has his beat defined, yet the numerous avenues of communication in such cities, which are usually well lighted, permit him to render service promptly in any adjoining locality.

As a rule, there are not more than thirty first-class patrolmen (Americans) regularly detailed on the streets at one time. This, of course, excludes the reserves, which are called out on special occasions.

The committee on organization made a report on the department to the Commission, and it was recommended that the police force consist of not more than 500 men, including those detailed for Insular service and to the Bureau of Health for sanitary purposes; and that the number of Americans be reduced to 200 men and the number of Filipinos to 300, and finally, that the department be maintained at an annual expenditure of not to exceed ₱800,000. Evidently an error was made in that calculation, for, with the known salaries of the men actually employed at the time this report was made, the maximum appropriation allowed was not sufficient to retain 500 men. A margin of safety for emergencies must always be allowed and the chief can not risk keeping the strength at the maximum of the appropriation, especially in the early months of the fiscal year. As a matter of fact, since the beginning of this year the chief has employed first-class police on an average as follows:

|                |     |
|----------------|-----|
| January .....  | 173 |
| February ..... | 170 |
| March .....    | 170 |
| April .....    | 168 |
| May .....      | 154 |
| June .....     | 158 |

When the number of men sick, on vacation and accrued leave, and on duty at the Ayuntamiento and Malacañan Palace is deducted from these totals it is clear why only so small a guard of Americans can be placed on the streets for regular duty.

The strength of the second and third-class police (Filipino) has been kept up to the mark of 300, and these men are doing good work, when properly supervised by officers and the first-class police. At times the Filipino police have been slightly above this limit. Precincts 5 and 6 are in command of Captains Crame and Usac, and the regular patrol work is done almost exclusively by second and third-class police under the supervision of the first-class police.

The suppression of the police launch has greatly handicapped the work in the bay, where the department is under heavy responsibilities by virtue of the City Charter, in addition to the many calls for assistance made by Bureaus and officials of the Insular Government. The scheme of the committee on organization is that all Bureaus of the Insular Governments and municipal departments be required to furnish transportation on their launches to police officers on duty where such transportation would not interfere to any great extent with their ordinary work, and that whenever necessary the police department be authorized to rent a launch from the Bureau of Navigation. The Bureaus possessing transportation have extended courtesies to the police officers and secret-service

men detailed on bay work, but a great amount of time has been lost by these men in waiting for transportation or being left for an unnecessary length of time aboard ships, where their duties had required their presence for a few moments only, until they could pick up passage on some shore-bound launch. This also serves to materially lessen the usefulness of the men by curtailing their sphere of action and causing much loss of valuable time. The following tabulated statement gives an idea of the amount of regular work which the department is called upon to perform in the bay, in addition to the varying amount of important special work and secret-service work:

|   |     |
|---|-----|
| Total number of ships arriving in the bay July 1, 1906, to June 30, 1907..... | 522 |
| Total number of ships departing during same period.....                       | 513 |
| Arriving ships not boarded..... per cent....                                  | 5   |
| Departing ships not boarded.....do.....                                       | 25  |

When the police launch was in commission the agents of the department missed only one-third of 1 per cent of the arriving ships and  $3\frac{2}{3}$  per cent of the departing ships.

As Manila is the hotbed of all political crime, and practically all the evil which does not find its source in the Islands is brought here through this port, it is extremely necessary that all in-coming vessels should be visited by an agent of the department. In the majority of cases, persons attempting to evade the law or escape arrest seek to reach the China coast; moreover, Government regulations affecting numerous officials are such that they are not authorized to leave the Islands without having performed certain formalities and possessing prescribed receipts, and the police department is relied upon to attend to these matters.

In addition to the service for this department, the police launch was of material assistance to the fire department on several occasions, by reason of the equipment of fire pumps which it carries. During the last year two fires, one of which was very disastrous and costly, might have been more quickly extinguished had the service of these fire pumps been available. The total annual cost of maintaining the police launch is approximately ₱14,000. There is very little doubt that three or four times this amount could have been saved in the Stevenson & Co. fire on the south bank of the Pasig River.

The bill of the city against the Insular Government for approximately ₱280,000 for the actual cost of services rendered by the police department in special details of patrolmen guarding Insular buildings and the residences of some Commissioners is still in dispute, and it is to be hoped that this matter will at last receive consideration from the Commission and that the city will obtain the refund of this sum to which it feels it is entitled.

The cost of the maintenance of the department for the fiscal year 1907 was as follows:

|                           |             |
|---------------------------|-------------|
| Salaries and wages .....  | ₱744,986.99 |
| Contingent expenses ..... | 58,760.29   |

Whereas, the cost of the department in the preceding year was—

|                           |               |
|---------------------------|---------------|
| Salaries and wages .....  | ₱1,097,536.57 |
| Contingent expenses ..... | 58,381.32     |

#### POLICE FUND.

Five thousand pesos were withdrawn from the current expense account and placed on fixed deposit in the Chartered Bank of India on August 29, 1906. A working balance of ₱478.16 was retained to meet emergencies. The receipts for the year amounted to ₱912.21, and at the end of the fiscal year this fund had to its credit ₱5,478.16.

#### *Changes in the police force.*

| Cause.                            | First class police (Americans). | Second and third class police (Filipinos). |
|-----------------------------------|---------------------------------|--|
| Appointments.....                 | 3                               | 22   |
| Reinstatements.....               | 14                              | 10   |
| Promotions.....                   | 11                              | 8  |
| Longevity increases.....          | 45                              | 78   |
| Reduced.....                      |                                 | 1  |
| Discharged (good of service)..... | 2                               | 5  |
| Discharged, own request.....      | 62                              | 16   |
| Discharged for incapacity.....    |                                 | 3  |
| Transfers.....                    | 8                               | 1  |
| On accrued leave.....             | 378                             | 433  |
| Vacation leave.....               | 888                             | 925  |
| On leave without pay.....         | 13                              | 25   |

#### GENERAL OPERATIONS.

During the year 11,337 arrests were made, which is a decrease of 655 from the previous year and a decrease of 2,326 from the fiscal year 1906. The chief causes of arrest were as follows:

| Offense.                               | 1907. | 1906. |
|--|-------|-------|
| Gambling and conducting gambling.....  | 2,899 | 2,698 |
| Disorderly conduct.....                | 901   | 1,170 |
| Cruelty to animals.....                | 551   |       |
| Violation of sanitary regulations..... | 426   |       |
| Violation of Opium Law.....            | 374   |       |
| Blocking the highway.....              | 350   | 469   |
| Theft.....                             | 300   | 608   |
| Violation of License Regulations.....  | 243   |       |
| Vagrancy.....                          | 211   | 409   |
| Larceny.....                           | 203   | 279   |
| Assault.....                           | 111   | 358   |
| Embezzlement.....                      | 15    | 146   |



PIPE LINE FROM TERMINAL CHAMBER.





SHAFT NO. 4 A, LOOKING UP.





Of the persons arrested 9,570 were males and 1,767 were females, by nationality as follows:

|                           |        |
|---------------------------|--------|
| Americans .....           | 505    |
| Spaniards .....           | 27     |
| Filipinos .....           | 8,786  |
| Europeans .....           | 39     |
| Chinese .....             | 1,878  |
| Japanese .....            | 45     |
| South Americans .....     | 4      |
| East Indians .....        | 30     |
| Americans (colored) ..... | 18     |
| Turks .....               | 3      |
| Jamaican .....            | 1      |
| Syrian .....              | 1      |
| Total .....               | 11,337 |

As usual, there was very little violent crime, as will be shown in the following table:

|                                 |   |
|---------------------------------|---|
| Murder .....                    | 6 |
| Assault with deadly weapon..... | 4 |
| Attempted suicide .....         | 1 |
| Rape .....                      | 2 |
| Homicide .....                  | 3 |

#### SUMMARY COURT.

There were 106 trials by summary court. Nine hundred and twelve pesos and twenty-one centavos were realized from fines and deposited to the credit of the police fund.

#### POUND.

The city pound was turned over to the department of sanitation and transportation on November 15, 1906. Up to this time there were impounded 765 dogs, and fees were collected to the amount of ₧1,730.30.

#### PATROL WAGONS.

The patrol wagons responded to 2,213 calls, of which 188 were fast calls. This service is valuable, being well equipped and operated in a thoroughly efficient manner.

#### FIREARM PERMITS.

There were issued during the year 920 firearm permits, renewed 345, and canceled 516.

## ARMS AND ACCOUTERMENTS.

The arms and accouterments were regularly inspected and are in good condition. The department has been reimbursed for the value of all articles lost by members of the force.

## HEALTH.

The health of the department has been excellent. The transfer of the duties of the police surgeons to the district offices of the Bureau of Health, which was arranged by the Municipal Board a year ago, has proven successful. There were three deaths among Filipino police.

## CONFISCATED, FOUND, AND STOLEN PROPERTY.

Two hundred and eighty-eight entries of these classes of property have been received during the year; 82 entries of miscellaneous property were disposed of at public auction on March 15, 1907, at a total price of ₱116.96.

## COÖPERATION WITH CONSTABULARY.

Coöperation with the Philippine Constabulary and military authorities continues to be excellent, as in the past.

## SERVICE FOR COURTS AND PROSECUTING ATTORNEY.

The department has on an average served, daily, ten court processes for the sheriff and ten subpoenas for the prosecuting attorney.

## SECRET-SERVICE BUREAU.

The secret-service bureau recovered stolen money to the amount of ₱7,757.51, and stolen property to the value of ₱18,777.93.

This bureau, by means of the Bertillon system, measured and photographed 1,190 persons and verified the measurements of 533 persons. The total number of identifications of persons received three or more times was 275, and the bureau identified and furnished the criminal records of 233 persons. Thus, the grand total of persons handled in the original-records office for the year is 2,231.

Since April 6, 1907, when Chief Trowbridge left the Islands on accrued leave, Detective Carl B. Hard has conducted the work under the direction of the chief of police. The bureau is well organized and its work is efficient.

## LAW DEPARTMENT.

## OFFICE OF THE CITY ATTORNEY.

Seventeen thousand eight hundred and forty pesos were appropriated for salaries of the personnel of this office for the fiscal year ending June 30, 1907, as against ₱33,040 which were appropriated for the year which ended June 30, 1906. The economy effected is ₱15,200, due to the reduction of the personnel to six Filipino employees in place of three American employees and seven Filipinos. The efficiency of this office, exclusively under the charge of these six Filipino employees, has not diminished, and it is judged to be equal to that of former years, as can be seen from the following table:

*Administrative labors during the fiscal years 1905-6 and 1906-7.*

| Nature of work performed.          | 1905-6. | 1906-7. |
|------------------------------------|---------|---------|
| Opinions written .....             | 73      | 52      |
| Ordinances prepared .....          | 6       | 9       |
| Bonds, deeds, etc., prepared ..... | 146     | 60      |
| Letters sent .....                 | 757     | 366     |
| Letters received .....             | 465     | 308     |

*Cases prosecuted.*

## FISCAL YEAR 1905-6.

| Court.                              | Finished. |       |                                 |        | Pend-<br>ing. | Total of<br>cases. |
|-------------------------------------|-----------|-------|---------------------------------|--------|---------------|--------------------|
|                                     | Won.      | Lost. | New trial<br>or dis-<br>missed. | Total. |               |                    |
| Supreme Court .....                 | 5         | 4     | 1                               | 10     | 30            | 40                 |
| Court of First Instance .....       | 22        | 2     | 3                               | 27     | 32            | 55                 |
| Court of Land Registration .....    | 42        | 5     |                                 | 47     | 8             | 45                 |
| Court of justice of the peace ..... | 40        |       | 2                               | 42     | 2             | 49                 |
| Total .....                         | 109       | 11    | 6                               | 126    | 72            | 189                |

## FISCAL YEAR 1906-7.

|                                     |    |   |   |    |    |     |
|-------------------------------------|----|---|---|----|----|-----|
| Supreme Court .....                 | 4  | 4 | 4 | 12 | 26 | 38  |
| Court of First Instance .....       | 16 | 2 |   | 18 | 20 | 38  |
| Court of Land Registration .....    | 38 | 2 |   | 40 | 17 | 57  |
| Court of justice of the peace ..... | 2  |   |   | 2  | 2  | 4   |
| Total .....                         | 60 | 8 | 4 | 72 | 65 | 137 |

## OFFICE OF THE PROSECUTING ATTORNEY.

The sum of ₱34,000 was appropriated for the personnel of this office for the fiscal year ending June 30, 1907, as against ₱44,860 which were appropriated for the year which ended June 30, 1906. The economy

effected is ₱10,860, due to the reduction of the personnel to six American employees and five Filipinos in place of seven American employees and seven Filipinos. This reduction of personnel notwithstanding, the efficiency of this office has not fallen off, as can be seen from the following table:

| Nature of work performed.              | 1905-6. | 1906-7. |
|--|---------|---------|
| Investigations made .....              | 4,619   | 3,238   |
| Cases in Court of First Instance ..... | 480     | 621     |
| Cases in municipal court .....         | 3,122   | 679     |
| Total of cases filed .....             | 3,602   | 1,300   |

It appears that during the year which ended June 30, 1906, 3,122 complaints were filed before the municipal court, while during the year which ended June 30, 1907, only 679 were filed. This difference is apparent because all of the complaints filed before the municipal court were included in the former figure, while the latter represents only the number of complaints filed before said court which were prepared in the office of the prosecuting attorney.

#### OFFICE OF THE MUNICIPAL COURT.

Fifteen thousand two hundred and forty pesos were appropriated for salaries of the personnel of this office for the fiscal year which ended June 30, 1907, as against ₱16,520 which were appropriated during the year which ended June 30, 1906. The economy realized is ₱1,280, due to the reduction of the personnel to one American employee and five Filipinos in place of two American employees and five Filipinos. The work performed by this office is shown in the following table:

#### *Cases during the years 1905-6 and 1906-7.*

| Disposition.           | 1905-6. | 1906-7. | Decrease. |
|------------------------|---------|---------|-----------|
| Complaints filed ..... | 7,130   | 6,206   | 924       |
| Defendant tried .....  | 11,122  | 10,084  | 1,038     |
| Males tried .....      | 9,415   | 8,410   | 1,005     |
| Females tried .....    | 1,707   | 1,674   | 33        |

#### OFFICE OF THE REGISTER OF DEEDS.

The sum of ₱9,820 was appropriated for the personnel of this office for the year ending June 30, 1907, as against ₱9,900 which were appropriated for the year which ended June 30, 1906. Notwithstanding the creation of two additional clerical positions, which were necessary for the good operation of the office, an economy of ₱80 was realized, due to the abolishment of the position of assistant register. No complaint whatever against the office has been received this year, in spite of the increase of

work in said office, which is charged with the keeping of the registration of mortgages of personal property in accordance with Act No. 1508, which went into effect in August of 1906.

The work performed by this office during this year, as compared with that of the previous year, is shown in the following table:

| Item.                                   | July 1, 1905, to<br>June 30, 1906. |                 | July 1, 1906, to June 30, 1907. |                 |                  |
|---|------------------------------------|-----------------|---------------------------------|-----------------|------------------|
|   | Mortgage<br>Law.                   | Act No.<br>496. | Mortgage<br>Law.                | Act No.<br>496. | Act No.<br>1508. |
| Total titles presented                  | 1,102                              |                 | 902                             |                 |                  |
| Certificates of entries issued          | 92                                 |                 | 110                             |                 |                  |
| Statement and researches                | 115                                |                 | 97                              |                 |                  |
| Notes of consolidation                  | 60                                 |                 | 52                              |                 |                  |
| Total                                   | 1,369                              |                 | 1,161                           |                 |                  |
| Decrees of court transcribed            |                                    | 255             |                                 | 272             |                  |
| Entries made                            |                                    | 409             |                                 | 512             |                  |
| Certificates of titles issued           |                                    | 196             |                                 | 396             |                  |
| Additional copies                       |                                    | 13              |                                 | 22              |                  |
| Legalized copies of documents           |                                    | 38              |                                 | 34              |                  |
| Professional titles recorded            |                                    | 11              |                                 | 12              |                  |
| Notifications of applications annotated |                                    |                 |                                 | 120             |                  |
| Total                                   |                                    | 922             |                                 | 1,368           |                  |
| Documents transcribed                   |                                    |                 |                                 |                 | 422              |

There is not a person at present designated by law who could temporarily take the place of the register of deeds in case of illness, absence on leave, or for any other motive by reason of which he is unable to attend to his duties, which condition requires an amendment to section 10 of Act No. 496 so as to provide for this point. The examiner of titles for the city of Manila, to which position section 12 of Act No. 496 refers, is the person called upon to take the place of the register of deeds in such cases. This official, who has his office in that of the register and whose functions are quite analogous, would be able to take the place of the register of deeds in necessary cases and the latter, likewise, take the place of the examiner of titles in similar cases. In this way provision is made enabling both officials to enjoy a recognized right which other Government employees are enjoying, providing at the same time that said offices be always under the direction of a competent person in the cases aforementioned.

#### OFFICE OF THE JUSTICE OF THE PEACE.

The sum of ₱3,420 was appropriated for the personnel of this office for the year which ended June 30, 1907, as against ₱5,680 which were appropriated for the year previous. The economy realized is ₱2,260, due to the reduction of the personnel from six to three Filipino employees, which reduction was caused by the consolidation in one of the two courts

which formerly existed. This consolidation has not affected the efficiency of this office, as can be seen from the following table:

| Court operations.                    | Fiscal year— |         |
|--------------------------------------|--------------|---------|
|                                      | 1905-6.      | 1906-7. |
| Total suits tried .....              | 1,815        | 3,830   |
| Deposits of money in court.....      | 13           |         |
| Affidavits taken .....               | 41           |         |
| Pending cases .....                  |              | 100     |
| Marriage certificates received ..... | 1,492        | 1,759   |
| Marriages solemnized .....           | 44           | 49      |
| Total .....                          | 3,405        | 5,738   |

Act No. 1627, which went into effect July 1, 1907 (sec. 19 and subsequent sections), gives new duties to the justices of the peace. In consideration of this increase of work, an increase of ₱600 in the salary of the justice of the peace is recommended, so that he receive ₱3,000 per annum instead of ₱2,400. It is further recommended that an additional clerk, Class K, at ₱300 per annum, be added to the two existing ones of Class H, at ₱720, and Class K, at ₱300, per annum, respectively.

It is also recommended that section 7 of Act No. 1627, in so far as the way of enjoyment of leave of absence by the justice of the peace is concerned, be amended, because it seems just that the enjoyment of this right be put on the same basis as that of other Government employees, instead of requiring him to pay out of his salary the auxiliary justice of the peace for the work performed by the latter during the former's absence.

#### OFFICE OF THE SHERIFF.

The sum of ₱10,160 was appropriated for salaries of the personnel of this office for the year which ended June 30, 1907, as against ₱20,810 which were appropriated for the previous year. The economy realized is ₱10,650, due to the reduction of the personnel from three American and nineteen Filipino employees to one American and fourteen Filipino employees.

The efficiency of the work of this office, notwithstanding the reduction of personnel, has not fallen off, as can be seen from the attached table.

In support of the statement as to the efficiency with which this office has operated during the year which ended June 30, 1907, it is expedient to invite attention to the fact that the fees collected by this office during the year which ended June 30, 1906, amounted to ₱13,689.36, while those for the fiscal year 1907 have amounted to ₱16,752.65; that is, an increase of ₱3,063.29 over those of the previous year.

It is recommended that the increase of ₱1,000 in the salary of the sheriff, as provided for in the appropriation bill for the fiscal year just ended, be raised to ₱2,000 in the estimates for the current year.

*Labors accomplished during the years 1905-6 and 1906-7.*

| Nature of work.                             | 1905-6. | 1906-7. | Increase. | Decrease. |
|---|---------|---------|-----------|-----------|
| Attachments                                 | 203     | 139     |           | 64        |
| Attachments discharged                      | 36      | 36      |           |           |
| Appointments made                           | 35      | 32      |           | 3         |
| Bench warrants                              | 31      | 16      |           | 15        |
| Citations (subpœnas):                       |         |         |           |           |
| Civil                                       | 951     | 990     | 39        |           |
| Criminal                                    | 2,301   | 1,571   |           | 730       |
| Certificates of sale                        | 72      | 66      |           | 6         |
| Claims filed                                | 65      | 27      |           | 38        |
| Executions                                  | 660     | 577     |           | 83        |
| Garnishees served                           | 246     | 151     |           | 95        |
| Foreclosures of chattel mortgage            |         | 10      |           |           |
| Indemnity bonds                             | 40      | 19      |           | 21        |
| Indorsements made                           | 36      | 19      |           | 17        |
| Injunctions                                 | 24      | 52      | 28        |           |
| Letters written                             | 325     | 156     |           | 169       |
| Levies discharged                           | 4       | 3       |           | 1         |
| Notices to registrar of deeds               | 104     | 98      |           | 6         |
| Notifications                               | 171     | 587     | 416       |           |
| Orders:                                     |         |         |           |           |
| To declare                                  | 34      | 30      |           | 4         |
| Of ouster                                   | 325     | 528     | 203       |           |
| Of arrest, civil                            | 19      | 73      | 54        |           |
| Of arrest, criminal                         | 314     | 396     | 82        |           |
| Of sale                                     | 8       | 6       |           | 2         |
| To show cause                               | 42      | 64      | 22        |           |
| To deposit                                  |         | 2       |           |           |
| To deliver                                  | 24      | 14      |           | 10        |
| To pay                                      |         | 2       |           |           |
| To amend                                    |         | 2       |           |           |
| To receive bond                             |         | 1       |           |           |
| Posting notices, Court of Land Registration | 278     | 385     | 107       |           |
| Prisoners transferred                       | 696     | 498     |           | 198       |
| Prisoners committed                         | 245     | 398     | 153       |           |
| Prisoners incarcerated                      | 257     | 371     | 114       |           |
| Prisoners released                          | 122     | 189     | 67        |           |
| Prisoners bailed                            | 119     | 94      |           | 25        |
| Reports made                                | 43      | 36      |           | 7         |
| Requisitions passed                         | 105     | 47      |           | 58        |
| Replevins discharged                        | 3       | 3       |           |           |
| Sales advertised                            | 217     | 198     |           | 19        |
| Sales made                                  | 135     | 110     |           | 25        |
| Search warrants                             |         | 4       |           |           |
| Stay of executions                          | 16      | 1       |           | 15        |
| Summonses, civil cases                      | 3,096   | 2,910   |           | 186       |
| Vouchers prepared                           | 237     | 97      |           | 140       |
| Writs of habeas corpus                      | 24      | 35      | 11        |           |
| Writs of replevin                           | 45      | 37      |           | 8         |

*Comparative statement of salaries of the personnel in the offices of the law department during the fiscal years 1906 and 1907.*

| Office.               | 1906.      |            |          | 1907.      |            |         | Decrease. |
|-----------------------|------------|------------|----------|------------|------------|---------|-----------|
|                       | Amer-ican. | Fili-pino. | Total.   | Amer-ican. | Fili-pino. | Total.  |           |
| City attorney:        |            |            |          |            |            |         |           |
| Number                | 3          | 7          | 10       |            | 6          | 6       | 4         |
| Salaries              | P11,000    | P22,040    | P33,040  | P17,840    | P17,840    | P15,200 |           |
| Prosecuting attorney: |            |            |          |            |            |         |           |
| Number                | 7          | 7          | 14       | 6          | 5          | 11      | 3         |
| Salaries              | P27,700    | P17,160    | P44,860  | P25,000    | P9,000     | P34,000 | P10,860   |
| Municipal court       |            |            |          |            |            |         |           |
| Number                | 2          | 5          | 7        | 1          | 5          | 6       | 1         |
| Salaries              | P10,200    | P6,320     | P16,520  | P7,000     | P8,240     | P15,240 | P1,280    |
| Register of deeds:    |            |            |          |            |            |         |           |
| Number                |            | 8          | 8        |            | 9          | 9       |           |
| Salaries              |            | P9,900     | P9,900   |            | P9,820     | P9,820  | P80       |
| Justice of peace:     |            |            |          |            |            |         |           |
| Number                |            | 6          | 6        |            | 3          | 3       | 3         |
| Salaries              |            | P5,680     | P5,680   |            | P3,420     | P3,420  | P2,260    |
| Sheriff:              |            |            |          |            |            |         |           |
| Number                | 3          | 19         | 22       | 1          | 14         | 15      | 7         |
| Salaries              | P11,200    | P9,610     | P20,810  | P2,400     | P7,760     | P10,160 | P10,650   |
| Total:                |            |            |          |            |            |         |           |
| Number                | 15         | 52         | 67       | 8          | 42         | 50      | 17        |
| Salaries              | P60,100    | P70,710    | P130,810 | P34,400    | P56,080    | P90,480 | P40,330   |



*Recapitulation.*—During the year which ended June 30, 1906, the personnel was composed of 15 American employees and 52 Filipinos with an appropriation of ₱130,810 for salaries of the same, and during the year which ended June 30, 1907, the personnel was reduced to 8 Americans and 42 Filipinos with an appropriation of ₱90,480, which represents a total saving of ₱40,330—that is, 32 per cent as compared with the old appropriation.

#### FIRE DEPARTMENT.

The personnel of the fire department for the fiscal year 1907, including the officers, consisted of 141 men, which is a decrease of five men from the strength of the department in the preceding year. The apparatus has been maintained in first-class condition, but there has been no increase of the equipment during the year, and the department is housed in the seven stations as heretofore. The total cost of the maintenance of the fire service of the city, including the office of the city electrician, for the fiscal year 1907, was ₱279,236.64. The available appropriation for this period was ₱290,000, leaving an unexpended balance, in favor of the department, of ₱10,763.36.

The department has steadily increased in capacity and efficiency without causing additional expense, but, on the contrary, a very material reduction has been accomplished, as will be seen in the following table:

| Fiscal year. | Appropriations. | Expenditures. |
|--------------|-----------------|---------------|
| 1905.....    | ₱334,000.00     | ₱318,195.82   |
| 1906.....    | 297,450.00      | 294,809.63    |
| 1907.....    | 290,000.00      | 279,236.64    |

The figures for 1905 are much higher than the others, chiefly on account of the purchase of equipment. It is probable that there will be a small increase in the appropriations for the fiscal year 1908 over those of 1907, for the reason that practically nothing was added to the equipment in the preceding year, and as most of the apparatus and hose have been in the service from three to six years, and the alarm system almost the same period, some renewals are necessary.

#### CHANGES AND RECOMMENDATIONS.

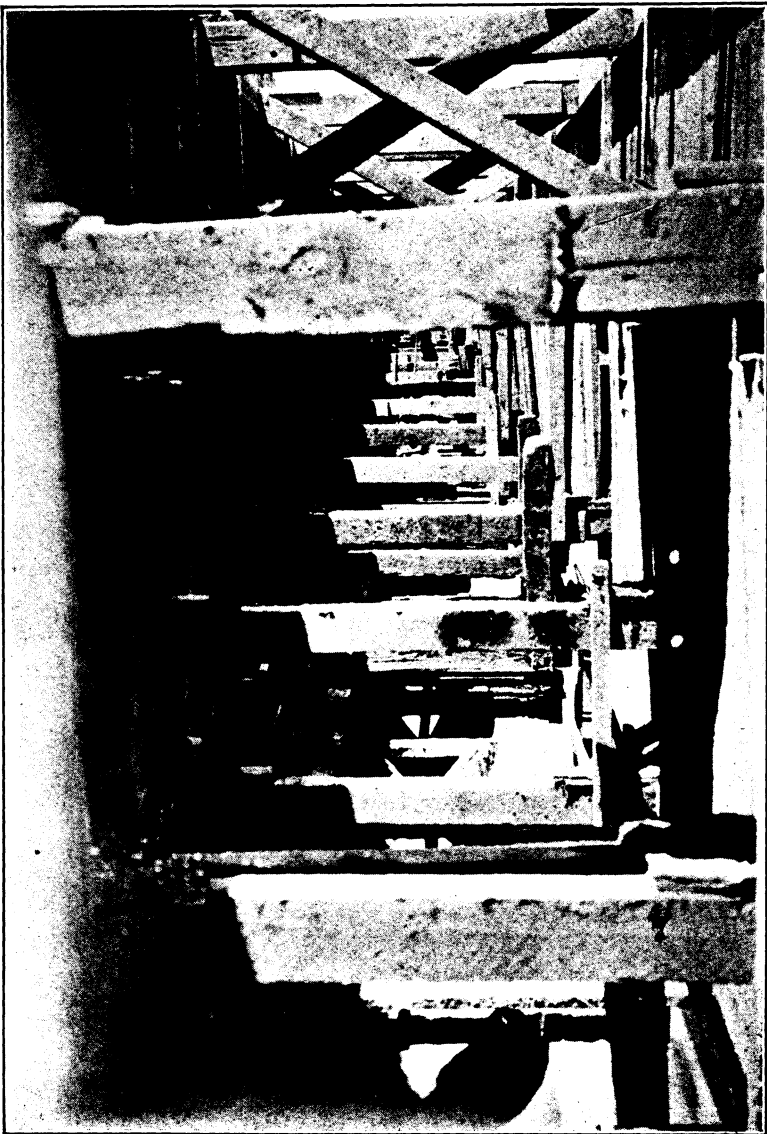
The personnel of the department for the coming year will consist of the following: One chief, 1 city electrician, 1 deputy chief, 1 chief engineer, 1 mechanic, 6 linemen, 8 captains, 13 lieutenants, 5 first-class engineers, 9 second-class engineers, 45 first-class firemen, and 50 second-class firemen.

The change proposed by the Board and authorized in the last appropriation bill, whereby the unsatisfactory consolidation of the offices of the city electrician and deputy chief was eliminated and the old grade of deputy chief restored, has resulted in a marked improvement.



OUTFALL.





TRENCH BRACING.



## FIRE PROTECTION ON RIVER AND BAY.

The department has had another experience in fighting fire in Manila Bay, on the United States Army transport *Thomas*, in October, 1906. The military authorities requested municipal assistance, and the best that could be done was to place engine company No. 1 on a barge, furnished by the quartermaster department, and tow it around the water front to the burning vessel. The time consumed by this procedure was over an hour and the delay permitted the fire to gain great headway, despite the strongest efforts of the crew of the *Thomas*. The river and bay shipping, and property adjoining, is in a more unfortunate position as regards proper protection than ever before, because the danger has been increased during the year by the additional docking facilities which bring more vessels close together, and the erection of new buildings and warehouses. The remarks on this subject in the last annual report of the department apply with equal, if not more, force at the present time, and, therefore, they are repeated:

In the plan of the organization committee of the Insular Government concerning the police department of the city of Manila, which plan was approved by the Commission, no provision has been made for the retention in the service of the police launch *Buckey O'Neill*, which is fitted with fire pumps, and on June 20, 1906, the crew was discharged and the launch went out of commission. If it is restored to service in some Bureau of the Insular Government it will be outside the jurisdiction of the city and its value for fire-fighting purposes will be approximately the same as the launches of the Bureau of Navigation. This reduces the city's equipment for marine fire service to the pumps on the sanitary barge *Pluto*. As this barge makes daily trips to the dumping grounds at least 10 miles down the bay, it will not be available for several hours each day. With these statements there is obviously no need for a further explanation of the fact that the river and bay shipping, and much of the waterfront property, are deprived of any adequate fire protection; and it is recommended that provision be made for more convenient use of and greater jurisdiction over the launches which are fitted with fire pumps. The services of the police launch, when fighting fire under the direction of the fire department, have been valuable.

Contracts have been awarded for the construction of wharfs and warehouses for the Quartermaster Department of the Army and for the Civil Government, and with the improvement of the reclaimed area and the attraction of offices and warehouses to the site of the new harbor south of the river, the demand for marine fire protection will naturally be much increased. Shipping will be more centralized and the lighterage and storage of cargo will occupy a more restricted area. In addition to the increase in the equipment of the department designed to protect this important section against fires in the harbor, special attention should be paid to the extension of the system of hydrants which will be installed on the reclaimed area.

The traffic in the bay and the river is very heavy, and Chief Dingman again recommends that provision be made for the control of the services of a suitable fire boat or a boat equipped with fire pumps.

In March of this year a fire was discovered in the bodegas of Stevenson & Co., on the south bank of the Pasig River near the Ayala Bridge.

While the property fronts on the river, furnishing a most ideal water supply for a fire launch, the department, through lack of such facility, was obliged to fight this most stubborn and baffling conflagration from one side only. The hydrants are located on Calle Concepcion, and as the bodegas are in the deep interior, water was thrown on the blazing hemp and the vast amount of inflammable stores only after being pumped through long lines of hose. The damage to building is estimated at ₱50,000, and to contents ₱370,000. Much of this loss would have been avoided if the department had had the service of a launch equipped with strong fire pumps.

#### INCREASED EQUIPMENT AND PERSONNEL.

Owing to the steady growth of the city, the increased number of buildings constructed of imported woods not semifire-resisting as are the best of native woods, and the very material expansion of the residence districts made accessible by the street-railway system, the present department is not sufficiently large, nor is it properly equipped to give the best protection against fire. But after careful consideration of the revenues and the imperative needs of the various branches of the city government, it is not felt advisable to increase the cost of this department at the present time, unless it be in the direction of supplying some protection to shipping on the river and bay and the warehouses and other improvements erected on the adjoining land.

#### SELF-PROPELLED APPARATUS.

Careful study has been made of the advisability of purchasing self-propelled fire apparatus and it has been decided to not recommend the acquisition of such equipment at the present time. It is not believed that the manufacture of automobile fire apparatus has reached a stage that can be described as entirely satisfactory and the high initial cost (more than twice that of the ordinary horse-drawn apparatus) and the distance from the centers of supply and repair, requiring either the outlay of considerable additional money in spare parts or long delays in delivery of the same, make it advisable to wait at least another year. Moreover, according to the catalogues and the most complete information which has been available, self-propelled engines are made only in sizes larger than those with which this department is equipped and really too large for the local service. Careful comparisons have been made of the present cost of the buggy and horse transportation of the chief of the fire department and the probable cost of maintaining a small but strong automobile runabout for this same purpose, and it is believed that economy and also increased efficiency could be obtained by making this addition to the department's equipment.

## PROPOSED STATIONS.

The fire chief again recommends the establishment of new stations for the better protection of Santa Mesa, where it is proposed to place an engine company; for Santa Ana, where it is proposed to place a chemical company; and for Malate, where many new buildings are being constructed, a small-sized combination truck and chemical, which would improve the situation materially. The addition of an engine would fulfill the present desires of the department.

## STATION BUILDINGS.

All the buildings of the department are in reasonably good condition with the exception of those occupied by engine companies Nos. 3, 4, and 6. Paco station (No. 3) has been in a leaky condition for the last year and being a one-story building, which has been gradually extended by the erection of temporary sheds of imported lumber, it is not at all satisfactory. Plans for converting the original permanent building of stone into a two-story edifice have been approved by the Board, and the remodeling and reconstruction have been commenced. It is estimated that by the end of October the department will have a modern and thoroughly equipped station ready for occupancy. The work is being done by the department of engineering and public works, for the reason that the bids received were considered to be too high. The total cost is estimated at ₱6,000.

Station No. 6 was constructed of imported lumber (not comparable to the more expensive product of the country) owing to an urgent demand for fire protection and the small available appropriation. A ceiling should be installed, as the dormitory on the second floor, covered only by galvanized iron, is often excessively hot and disturbs the sleep of the men, despite every protection in the way of thorough ventilation.

## HOSE.

The estimates of appropriation for the fiscal year 1908 contain an item of ₱6,600 for the purchase of hose. There should be at least two changes of hose for each station, and at present the seven engine companies carry 8,000 feet of 2½ inch on their hose wagons and 8,000 feet in reserve for a change. Of this total of 16,000 feet in the service of the department about 1,000 feet are in an unserviceable condition and about 1,000 feet are approaching an unserviceable condition. The greater part of the hose has been in the department since 1902-3, hence the necessity of acquiring a new supply.



## GENERAL OPERATION.

The department responded to 118 alarms of fire, which is a decrease of six over the preceding year, and in nearly all cases the fire-alarm system gave perfect satisfaction. Unfortunately, the total loss due to fire was larger than any other year since 1903, as is shown by the following table:

|            |            |
|------------|------------|
| 1903 ..... | ₱1,670,650 |
| 1904 ..... | 468,911    |
| 1905 ..... | 135,921    |
| 1906 ..... | 76,192     |
| 1907 ..... | 677,709    |

The loss for 1907 is divided as follows: Buildings, ₱165,262; contents, ₱512,447.

The great increase in these figures was made by four unusually disastrous fires, namely: Stevenson & Co., bodega, Calle Concepcion, March 27, 1907, estimated loss ₱420,000; nipa district, Paco, April 20, approximately 240 more or less small houses, ₱98,745; nipa district, Calle Rivera, March 31, 72 more or less small houses, ₱10,350; nipa district, Calle Cervantes, March 30, 33 more or less small houses and one strong-material building, ₱9,025.

It is probable that the losses in the nipa district have been over-estimated by the police and fire departments, as most of the information was gathered on the statements of house owners, and they have very little idea of the real value of their light-material houses and contents. In many cases heavy losses attributed to the destruction of contents were given by the occupants, when it has been conclusively proven that practically every stick of furniture and other movable articles had been carried to safe places in the early stages of the fire. Two fires occurred in Mandolayan, an outlying barrio across the Pasig River opposite Santa Ana, which could not be reached by the department. The distillery of Macke, Chandler & Co. was totally destroyed at an estimated loss of ₱40,000.

## INSPECTIONS.

The usual inspections of the various districts have been performed by the proper officers of each station, and the fire hydrants have been inspected each month and tested by opening the plugs and flushing out the valves.

All powder and high explosives are stored in the San Juan magazine as heretofore, and the regulations governing transportation of such materials have been carefully observed. There were six convictions for violation of Ordinance No. 47 and three convictions for the storing of kerosene without the proper permit. Up to April 1, 1907, there were no fees charged for license for the storage of combustibles and explosives, but since that date, when Ordinance No. 93 became effective, 577 licenses have been issued upon the payment of the proper fees.

## ELECTRICAL BRANCH.

The decay of several of the poles of the police and fire alarm system has required the substitution of new ones in many parts of the city. Much work has been accomplished in constructing aerial lines and overhauling a large number of the alarm boxes, gongs, etc. Boxes numbered 712 and 713 were installed at the custom-house to replace the auxiliary system, which was found to be defective and unreliable. For the same reasons the auxiliary box in the Bureau of Science was disconnected. Fifty-two alarms of fire were transmitted over the system in a prompt and satisfactory manner. The police system has been operating on a five-minute day-and-night schedule with entire satisfaction.

The general reconstruction of electrical installations throughout the city, due to the change from 110 volts to 220 volts in the commercial secondary feeder mains of the Manila Electric Railroad and Light Company, has been completed. Approximately 1,200 telephones have been installed by the Philippine Islands Telephone and Telegraph Company. Many of the city poles are used by this company under definite contract of rental. This growth and improvement in the electrical construction has materially added to the regular work of this office. The ordinances have been strictly enforced and minute attention has been given to details of construction.

There were issued from the office 2,758 permits for electrical installation and 2,683 certificates of inspection. The actual number of inspections made is 5,307. Total inspection fees amounted to ₱5,607.15, which is a reduction of ₱2,260.30 from the last fiscal year. An arrangement which has been of much convenience to the electrical contractors has been put in force by which these contractors may give bond and pay monthly the fee for electrical inspections at the office of the city assessor and collector, instead of requiring payment for each individual certificate.

On the recommendations of the city electrician several changes have been made in the police-alarm apparatus, the principal one of which is the substitution of wet for dry batteries in all police boxes, and it is estimated that this change will result in an annual saving of approximately ₱500. The boxes as changed are giving entire satisfaction.

## REFORM OF PUBLIC LIGHTING SYSTEM.

The general plan for the reform of the public lighting system, which was presented in 1906 by the committee on electrical installation and illumination, has been perfected in nearly all its details, so that now the department has plans of each district of the city on a larger scale, outlining the improvements which are to be made from time to time as the available appropriations will permit. The estimate of appropriation for 1908 contains an increase of ₱7,000 over the expenditures of the previous year, for necessary additions to the lighting service, and if this

sum be allowed by the Commission a very material improvement can be made in some of the markets and in the street lighting, especially in those new districts which have been built up and represent the investment of a large amount of money in modern houses, and also in the districts of Pandacan and Santa Ana, which are far removed from the centers of population, being cut off by large areas of agricultural land, unsuitable in its present condition for residence purposes.

An arrangement was made with the Manila Electric Railroad and Light Company, in March, 1907, by virtue of which the city secures the benefit of the modern inclosed arc lamps, in place of the old arcs and incandescent lights supplied by La Electricista. For some years the districts of Intramuros, San Nicolas, Quiapo, Binondo, Santa Cruz, and San Miguel have been lighted chiefly by incandescent lamps, and as these districts include several important centers of population the substitution of the inclosed arc will constitute a great improvement. Special ornamental fixtures bearing the new style arc were installed on the Luneta in the month of January, and they are giving entire satisfaction. The suppression of the incandescent lamps and the open arc in favor of the new inclosed arc will effect all the improvements anticipated and also permit an addition of about eleven new lights, without causing any increase in expense.

The electric line connecting Manila with Fort William McKinley, under a franchise granted on January 30, 1906, has been completed between those two points, and operation was commenced April 18, 1907, and the cars are being run under a twenty-minute service. The line is being extended to Pasig.

#### DEPARTMENT OF ASSESSMENTS AND COLLECTIONS.

##### REAL-ESTATE TAX.

The real-estate tax is the city's most important source of revenue.

Efforts have been made by some of the largest holders of real estate to secure a reduction of the tax rate, which is now only  $1\frac{1}{2}$  per cent. Such requests have usually been based upon the claim that real estate in Manila has been assessed too high. These assertions, however, appear to be unfounded, (1) because of the fact that of the 15,780 parcels of property in Manila subject to taxation appeals were taken on only 298 parcels, of which only in the case of 34 were reductions made by the board of tax appeals; (2) that in the case of the five appeals so far taken and considered by the Board of Central Equalization under the provisions of Act No. 1474 of the Philippine Commission, none has been reduced, the Central Equalization Board in every case confirming the valuation placed upon the property by the city assessor and collector; and (3) because of information gathered by him as to rentals received for several thousand parcels of property in all parts of the city, which shows that, based upon

the present assessed valuations, the average rental received is over 17 per cent per annum. Inasmuch as there are no special assessments levied against Manila property, as is done in nearly all the cities of the United States, a tax rate of  $1\frac{1}{2}$  or over 2 per cent does not seem excessive.

The total value of taxable real estate in the city of Manila, as shown by the 1907 tax rolls, is ₱81,689,785. This is an increase of ₱1,164,550 over the valuation for 1906, due to new buildings erected and additions made to the tax rolls of some small properties that had heretofore escaped taxation.

Manila probably has a larger list of exempt property than any city of its size in the United States. Of a total assessment of ₱127,887,366 of real estate in the city, ₱46,197,581, over 36 per cent, is exempt from taxation by reason of its being used for religious, charitable, scientific, or educational purposes and not held for profit; or because of its belonging to some branch of the Government. The exempt property may be classified as to ownership as follows: Insular Government, ₱15,522,165; United States Army, ₱7,347,688; city of Manila, ₱4,745,504; Government ownership but branch not determined, ₱3,149,356; Catholic churches, ₱5,607,849; Protestant churches, ₱322,386; religious orders, ₱9,437,763; miscellaneous, ₱64,870.

There has been a gradual decline from year to year in the value of new buildings erected in the city. During the calendar year 1903 there were erected buildings to the value of ₱3,784,320; 1904, ₱3,489,846; 1905, ₱2,682,606; 1906, ₱1,594,506. Apparently capital is being diverted to commercial undertakings, etc., although real estate with even ordinary improvements continues to be a good investment, paying in rentals from 12 to 22 per cent.

Excellent results have been obtained by the city assessor and collector in the collection of both delinquent and current taxes during the year for which this report is made. Three tax sales were held during the year, for which 340 pieces of property were advertised, of which 118 were sold, the rest being redeemed after advertisement and before sale. Ten parcels were forfeited to the city, there being no bidders. No property was offered for sale unless the tax on same was delinquent for two years or more. Taxes on the majority of the property sold were delinquent for periods ranging from three to five years. The owners of the properties sold have one year from the date of the sale in which to redeem, and, judging from past experience, it is safe to assume that nearly all of it will be redeemed. Eighteen of the properties sold during the year have already been redeemed.

In February, 1907, authority was given for the cancellation of delinquent taxes to the amount of ₱8,188.68, which represented taxes due on small houses for the years 1901 to 1905, inclusive. The houses having been destroyed, and the owners not owning the land on which they had formerly been located, there was no means of making these collections.

The following comparative statement shows the amount of delinquent taxes outstanding on June 30, 1906 and 1907:

| For the year— | On June 30— |           |
|---------------|-------------|-----------|
|               | 1906.       | 1907.     |
| 1901.....     | P410.02     | P15.86    |
| 1902.....     | 2,367.64    | 115.02    |
| 1903.....     | 5,646.60    | 207.16    |
| 1904.....     | 20,034.29   | 1,076.36  |
| 1905.....     | 64,356.35   | 3,577.84  |
| 1906.....     |             | 53,658.53 |
| Total.....    | 92,814.90   | 58,650.77 |

From the above it will be seen that on June 30, 1907, the amount of delinquent tax was P34,164.13 less than on June 30, 1906.

#### MATADERO.

As predicted in the last annual report, the collections at the matadero have increased, although slightly, during the fiscal year 1907 as compared with the fiscal year 1906. The following statement shows the number of animals slaughtered and removed for consumption, the weight of dressed meat, and the fees collected at the rate of 3 centavos per kilo on dressed meat:

| Animal.     | Number. | Weight (kilos). | Collections. |
|-------------|---------|-----------------|--------------|
| Cattle..... | 20,636  | 2,668,144       | P80,044.32   |
| Hogs.....   | 55,285  | 2,828,735       | 84,862.05    |
| Sheep.....  | 224     | 1,872           | 56.16        |
| Total.....  |         |                 | 164,962.53   |

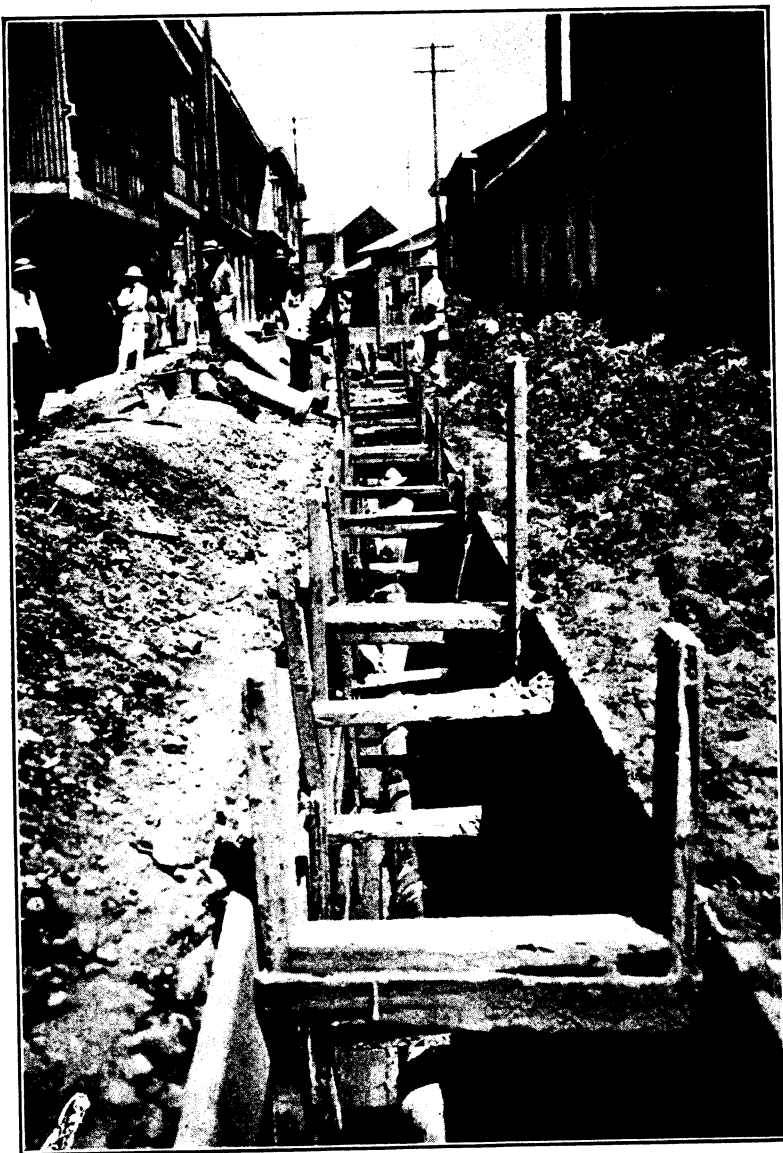
There were condemned and cremated 22 head of cattle and 306 hogs, besides a large number of parts of carcasses, the same having been declared unfit for human consumption by the veterinary inspectors on duty at the matadero. The number of diseased hogs that are slaughtered seems to be on the increase. Of the 306 condemned during the year, 253 were condemned during the last six months, and 67 of these were condemned during the month of June.

As shown above, there were slaughtered and removed from the matadero for consumption 76,145 animals, weighing, dressed, 5,498,751 kilos, as compared with 71,792 animals, weighing, dressed, 5,334,975 kilos removed during the fiscal year 1906.

#### PUBLIC MARKETS.

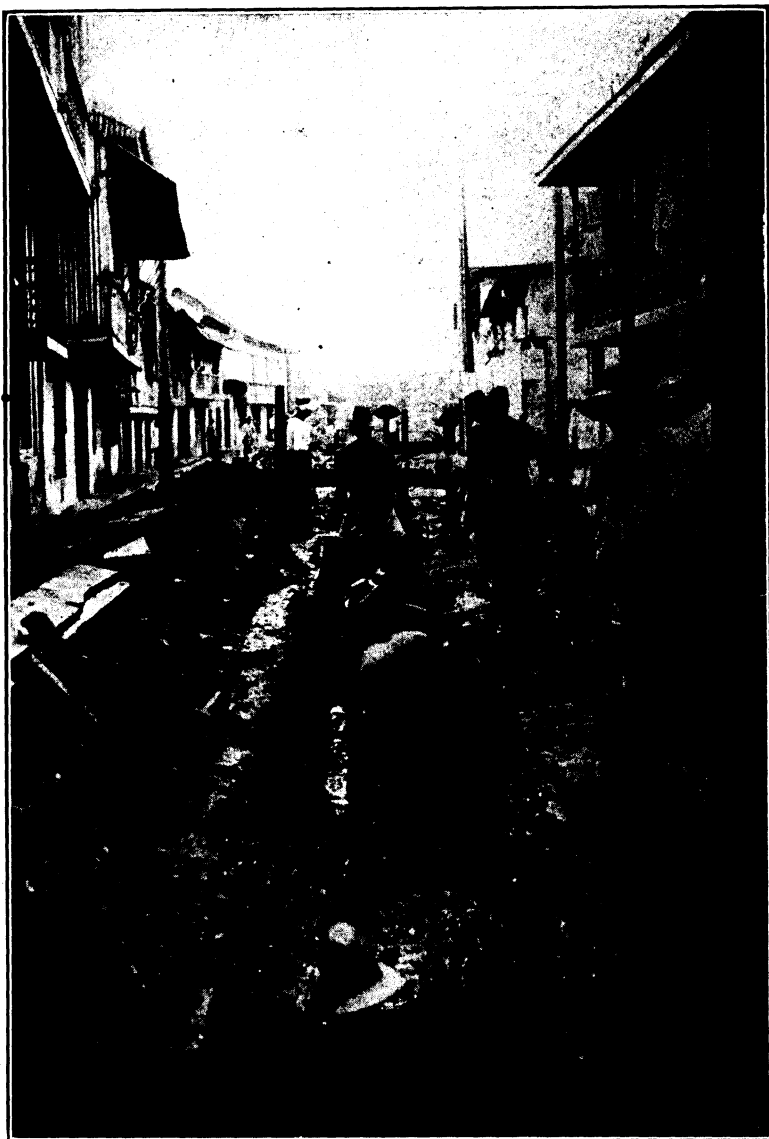
The number and location of the city markets remained unchanged throughout the year covered by this report.

The total market collections for the year amounted to P238,711.46 (P657.05, representing collections for June 29 and June 30, was not



CALLE LACOSTE.





CALLE ARRANQUE.





deposited in time to take credit on statement of total collections), as compared with ₱269,430.88 collected during the fiscal year 1906, resulting in a loss as compared with 1906 of ₱30,719.42. Of this loss ₱8,531.35 is due to the fact that collections of market fees to that amount were made at the various bay, river, and estero landings during a little over six months of the fiscal year 1906, whereas none whatever were made during the fiscal year 1907, the same having been discontinued on January 8, 1906.

The expenses incident to the making of market collections during the year were ₱18,106.34, or a saving as compared with the expenses for 1906 of ₱2,407.56. The expenses for the year 1907 represent a fraction over  $7\frac{1}{2}$  per cent of the collections, or about the same as for the year 1906.

The administration of the Quinta market was transferred to the department of sanitation and transportation on June 15, 1907.

The change promises to be most satisfactory and will probably lead to a similar transfer of other markets, if not all of them, in the near future.

The market collections should show a material increase during the year 1908, due (1) to the increased stall rentals in effect in Quinta market, which became effective June 15, and (2) to the restrictions regarding the sale of various articles of market produce outside the public markets, as provided by Ordinance No. 93.

*Statement showing the collections of each market during the fiscal year 1907.*

| Name of market.  | Total six months ending Dec. 31, 1906. | Total six months ending June 30, 1907. | Total fiscal year ending June 30, 1907. |
|------------------|--|--|---|
| Divisoria .....  | ₱60,242.21                             | ₱17,653.10                             | ₱181,895.31                             |
| Quinta .....     | 26,506.95                              | 30,830.10                              | 57,337.05                               |
| Arranque .....   | 12,391.85                              | 12,365.50                              | 24,757.35                               |
| Sampaloc .....   | 4,337.45                               | 4,222.05                               | 8,559.50                                |
| Herran .....     | 5,397.55                               | 5,783.35                               | 11,180.90                               |
| Anda .....       | 665.95                                 | 621.55                                 | 1,287.50                                |
| Santa Ana .....  | 699.15                                 | 756.30                                 | 1,455.45                                |
| Gagalangin ..... | 492.80                                 | 601.25                                 | 1,094.05                                |
| Pandacan .....   | 542.10                                 | 602.25                                 | 1,144.35                                |
| Total .....      | 111,276.01                             | 127,435.45                             | 238,711.46                              |

#### MUNICIPAL LICENSES.

From July 1, 1906, to and including March 31, 1907, the only occupations, trades, professions, and objects subject to the payment of municipal license taxes were: Peddlers (excepting those who sell only native vegetables, fruits, or foods personally carried by themselves), auctioneers, plumbers, hotels, restaurants, boarding houses, lodging houses, livery stables, race tracks, public vehicles, and dogs. These license taxes were imposed by the provisions of city Ordinance No. 9.

On February 11, 1907, Ordinance No. 93 was enacted, which repealed Ordinance No. 9, and became effective on April 1, 1907. By the passage

of said ordinance the following occupations, trades, professions, and objects were made subject to the payment of license taxes and permit fees, in addition to the above mentioned: Advertising agents, barbers, billiard and pool tables, boarding stables, bowling alleys, clubs, dance halls, detective agencies, embalmers, establishments for the storage of highly combustible or explosive materials, ferries, manufacture and sale of food and drink, fortune tellers, jugglers and acrobats, laundries and dyeing and cleaning establishments, mercantile and collecting agencies, merry-go-rounds, offensive or dangerous trades, parades, pawnbrokers, second-hand dealers and keepers of junk shops, shipping and intelligence offices, shooting galleries, slot machines, tattooers, theaters, and public warehouses.

As a whole, the license fees are low, the primary object of the ordinance being for the regulation and control of the various trades and occupations.

#### BUSINESS LICENSES AND PERMITS.

The collections from this source during the last fiscal year amounted to ₱25,085.59, as compared with ₱6,770.57 for the fiscal year ending June 30, 1906, or an increase of ₱18,315.02.

#### LIQUOR LICENSES.

Collections from the issue of liquor licenses during the fiscal year 1907 were ₱163,178.50, as compared with ₱184,278.64 during the fiscal year 1906, a decrease of ₱21,100.14.

The following statement shows the number of each class of liquor license in force in the city of Manila on June 30, 1907, and also the total number of each class in force on June 30, 1906:

#### *Liquor licenses in force June 30, 1906 and 1907.*

| Class of license.                    | June 30,<br>1907. | June 30,<br>1906. |
|--------------------------------------|-------------------|-------------------|
| First-class bar .....                | 37                | 46                |
| Second-class bar .....               | 37                | 43                |
| First-class restaurant liquor .....  | 15                | 18                |
| Second-class restaurant liquor ..... | 11                | 12                |
| First-class hotel liquor .....       | 2                 | 2                 |
| Second-class hotel liquor .....      |                   |                   |
| Theaters .....                       | 1                 | 3                 |
| First-class wholesale liquor .....   | 38                | 29                |
| Second-class wholesale liquor .....  | 4                 | 3                 |
| Third-class wholesale liquor .....   | 4                 | 3                 |
| Grocery liquor .....                 | 73                | 72                |
| Distillers .....                     | 8                 | 8                 |
| Brewers .....                        | 1                 | 1                 |
| Druggists .....                      | 4                 | 3                 |
| Native wine .....                    | 1,319             | 1,309             |
| Total .....                          | 1,554             | 1,552             |

The above does not include ten clubs which pay municipal club business licenses and internal-revenue taxes on the sale of liquors to their members.

## PUBLIC VEHICLE LICENSES.

There was collected on the issue of vehicle licenses ₱14,518.70 during the fiscal year 1907, as against ₱13,621.10 during the fiscal year 1906, showing an increase of ₱897.60. The number of such licensed vehicles on June 30, 1907, was 3,005. Due no doubt to the competition of the street railway, the class of vehicles used as public rigs has greatly improved.

## DOG LICENSES.

The revenue derived from the issue of dog licenses for the fiscal year just passed amounted to ₱5,327.11, as compared with ₱4,826.50 for the fiscal year 1906; an increase of ₱500.61. There were 1,338 dog licenses issued, 51 of which have been canceled, leaving 1,287 in effect on June 30, 1907.

## PUBLIC ENTERTAINMENT AND PEDDLERS' LICENSES.

Under the above heading there was collected, during the period covered by this report, ₱8,740.50, as compared with ₱8,392.50 for the fiscal year 1906, being an increase of ₱348. This increase is due to the adding of dance halls to the list of entertainments. Two forms of public entertainments subject to municipal license tax are race tracks (₱200 per annum and ₱10 daily additional for each race meeting) and dance halls, which pay a license tax of ₱3 for each night when dances are held. From race tracks there was collected during the year ₱570. There is only one race track in the city.

The revenue collected on peddlers' licenses during the fiscal year amounted to ₱5,956.50. The increased rate from ₱2 to ₱3 per quarter became effective on April 1. There were issued 1,984 licenses at ₱2 per quarter, 661 licenses at ₱3 per quarter, and 11 duplicates at ₱0.50 each.

## RECAPITULATION.

A recapitulation of collections on municipal licenses during the fiscal year ending June 30, 1907, and a comparison of same with collections for the year ended June 30, 1906, follows:

| Class of license.                 | 1906.       | 1907.       | Increase.  | Decrease.  |
|-----------------------------------|-------------|-------------|------------|------------|
| Liquors.....                      | ₱184,278.64 | ₱163,178.50 |            | ₱21,100.14 |
| Business.....                     | 6,770.57    | 25,085.59   | ₱18,315.02 |            |
| Entertainments and peddlers'..... | 8,392.50    | 8,740.50    | 348.00     |            |
| Vehicles.....                     | 13,621.10   | 14,518.70   | 897.60     |            |
| Dogs.....                         | 4,826.50    | 5,327.11    | 500.61     |            |
| Bicycles.....                     | 68.85       |             |            | 68.85      |
| Total.....                        | 217,958.16  | 216,850.40  | 20,061.23  | 21,168.99  |

Net decrease, ₱1,107.76.

## REGISTRATION OF LIVE STOCK.

In the last annual report comment was made regarding the small fees provided by existing law for the registration and transfer of ownership of cattle in Manila, and of the impracticability of requiring proof of ownership as is done throughout the provinces under the provisions of Act No. 1147. It was then recommended that the provisions of Act No 1147 be made applicable to the city of Manila.

During the year covered by this report, 2,484 animals have been registered, at a fee of ₱0.20 each, and 2,746 transfers of ownership have been recorded, at a fee of ₱0.10 each, making a total collection of ₱771.40, as against ₱785.80 for the year 1906.

## RENTALS OF CITY PROPERTY.

During the period covered by this report there has been collected as rentals for the use of the various parcels of city property the sum of ₱19,950.32, as compared with a collection of ₱18,730.29 during the fiscal year 1906, or an increase of ₱1,220.03.

## PAIL CONSERVANCY SYSTEM, WATER RENTS, BUILDING PERMITS, BOILER INSPECTION, AND VAULT CLEANING.

These charges are collected by the city assessor and collector upon assessment rolls and orders of payment prepared and issued by the department of engineering and public works and the department of sanitation and transportation. The receipts from these sources during the year were as follows:

|                              |            |
|------------------------------|------------|
| Pail system .....            | ₱48,508.26 |
| Vault cleaning .....         | 39,199.00  |
| Building permits .....       | 15,314.47  |
| Water rents .....            | 221,187.98 |
| Boiler-inspection fees ..... | 1,212.00   |

Of the above collections losses are shown as compared with the fiscal year 1906 collections on account of the pail system of ₱10,818.90, and in building permits of ₱2,644.43, while increases are shown as compared with the fiscal year 1906 in vault cleaning ₱507.15, water rents ₱10,449.29, and boiler-inspection fees ₱142. The principal loss as compared with 1906 is that under the heading of pail system, and it is partly due to the inter-Bureau voucher system which was established during the year 1907, and by which cash collections from Government Bureaus for the use of the pail system have been eliminated. This item alone accounts for nearly ₱5,000 of the shortage above shown.

## FEES, FINES, COSTS, ETC.

Costs, fines, fees, etc., were collected or received under the provisions of section 61 of the Manila Charter from the several officials charged with

their collection. The amounts received from these sources during the year were as follows:

|  |            |
|--|------------|
| Municipal court collections .....      | ₱53,331.43 |
| Sheriff's fees .....                   | 16,752.65  |
| Justice of peace fines and fees.....   | 5,968.57   |
| Pound receipts .....                   | 4,065.14   |
| City electrician's fees .....          | 5,495.75   |
| Cementerio del Norte .....             | 10,996.50  |
| Secretary of Municipal Board fees..... | 43.50      |
| Public health fees.....                | 13,764.60  |
| Total .....                            | 110,418.14 |

Of these items the following shows an increase as compared with the collections for the fiscal year 1906: Sheriff's fees, ₱3,063.29.

The following show losses as indicated:

|   |            |
|---|------------|
| Municipal court collections .....       | ₱15,169.34 |
| City attorney's fees .....              | 192.26     |
| Justice of peace fines and fees.....    | 789.33     |
| Pound receipts .....                    | 11.86      |
| City electrician's fees .....           | 2,372.95   |
| Cementerio del Norte .....              | 2,428.59   |
| Secretary of Municipal Board, fees..... | 25.50      |
| Public Health fees.....                 | 1,283.40   |
| Total .....                             | 22,273.23  |
| Net decrease .....                      | 19,209.94  |

*Miscellaneous collections.*

| Date.   | From whom collected.  | Amount.  |
|---|---|----------|
| 1906.   |   |          |
| July 12   | Manila Telephone Co., 7 per cent gross earnings for quarter ending June 30, 1906 .....        | ₱88.20   |
| July 13   | Beck miniature railroad, 5 per cent gross earnings for period July 5 to 13, 1906 .....        | 5.75     |
| July 23   | Beck miniature railroad, 5 per cent gross earnings for period July 14 to 22, 1906 .....       | 3.06     |
| Aug. 6  | Beck miniature railroad, 5 per cent gross earnings for period July 23 to August 5, 1906 ..... | 3.40     |
| Aug. 24   | Beck miniature railroad, 5 per cent gross earnings for period August 6 to 23, 1906 .....      | 2.20     |
| Nov. 2  | Manila Telephone Co., 7 per cent gross earnings for quarter ending Sept. 30, 1906 .....       | 250.00   |
| 1907.   |   |          |
| Jan. 24   | Banco Español-Filipino, dividends on city stock .....   | 2,256.00 |
| Feb. 19   | Philippine Islands Telegraph and Telephone Co., rent of city poles .....                      | 921.50   |
| Mar. 12   | J. E. Harding, chief, money found by police department .....                                  | 25.68    |
| Mar. 18   | J. E. Harding, chief, sale of confiscated and stolen property .....                           | 116.96   |
| <i>Department of sanitation and transportation.</i> |   |          |
| Jan. 14   | Rosario Vizcarra, 1,000 empty sacks, at 7 centavos .....                                      | 70.00    |
| Jan. 26   | Rosario Vizcarra, 2,000 empty sacks, at 7 centavos .....                                      | 140.00   |
| Feb. 20   | J. C. Mehan, chief, sale of property .....  | 45.35    |
| Mar. 7  | Pedro Ocampo, 500 empty sacks, at 10 centavos .....   | 50.00    |
| Mar. 22   | Rosario Vizcarra, 500 empty sacks, at 10 centavos .....                                       | 50.00    |
| Apr. 8  | Benedicto Gonzales, 500 empty sacks, at 10 centavos .....                                     | 50.00    |
| Apr. 17   | do .....  | 50.00    |
| Apr. 17   | Rosario Vizcarra, 1,000 empty sacks, at 10 centavos .....                                     | 100.00   |
| May 29  | Benedicto Gonzales, 500 empty sacks, at 10 centavos .....                                     | 50.00    |
| June 6  | Rosario Vizcarra, 300 empty sacks, at 10 centavos .....                                       | 30.00    |
| June 13   | Rosario Vizcarra, 200 empty sacks, at 10 centavos .....                                       | 20.00    |
| June 22   | Rosario Vizcarra, 500 empty sacks, at 10 centavos .....                                       | 50.00    |
|   | Total .....   | 5,128.10 |

## INTERNAL-REVENUE DIVIDENDS.

This source of revenue to the city of Manila now comprises:

- (1) The entire collections from the sale of cedulas in the city;
- (2) The entire receipts for internal-revenue licenses issued for the maintenance in Manila of theaters, museums, concert halls, pawnbrokers, circuses, and billiard rooms;
- (3) Manila's share in proportion to its population of the 25 per cent of the revenue apportioned under the provisions of the Internal Revenue Law for use of provincial and municipal governments;
- (4) The entire receipts from the sale of certificates to habitual users of opium in Manila; and
- (5) The entire receipts collected as fees for the testing and sealing of weights and measures in Manila.

The last two items did not constitute part of the dividends received during the fiscal year 1906. The Opium Law (Act No. 1461) became effective April 1, 1906, but as these dividends are only paid quarterly by the Insular Auditor, nothing was received as receipts from the sale of opium certificates until after the expiration of the fiscal year 1906. The Weights and Measures Law did not become effective until January 1, 1907; and owing to the fact that the metric standards, sealers, and other paraphernalia were not secured in time, the enforcement of the law only began in Manila in March, 1907.

The internal-revenue dividend is unusually large this year, due to the fact that five quarterly payments have been made by the Auditor, one payment due for 1906 being delayed and not received until after the close of that fiscal year.

The following is an itemized statement of the revenue from this source during the fiscal year 1907—

|   |            |
|---|------------|
| Manila's share of the 25 per cent of the revenues accruing to the provincial and municipal governments according to population..... | ₱61,838.01 |
| Cedulas .....   | 113,578.00 |
| License taxes enumerated above.....   | 10,437.50  |
| Opium certificates .....  | 26,485.00  |
| Weights and measures.....   | 1,097.05   |
| Total .....   | 213,435.56 |

As compared with ₱74,876.93 for the fiscal year 1906, or an increase of ₱138,558.63.

## MANILA ELECTRIC RAILROAD AND LIGHT COMPANY FRANCHISE TAX.

By the provisions of its charter the Manila Electric Railroad and Light Company pays to the city of Manila  $2\frac{1}{2}$  per cent of its gross earnings from fares collected, tickets sold, and electric light and power sold. In consideration of the payment of this franchise tax the company

is exempted from the payment of all other taxes except the real-estate tax. The sum of ₱40,851.54 was collected from this company during the fiscal year 1907, as compared with ₱28,662.85 collected during the fiscal year 1906.

## TOTAL COLLECTIONS.

The total collections of city taxes, fees, charges, etc., amounted to ₱2,668,033.10<sup>1</sup> for the fiscal year 1907, as compared with ₱2,465,780.40 for the fiscal year 1906, an increase of ₱202,252.70.

## EXPENSES.

The actual net expenses to the city of Manila for the collection of its taxes and other revenues collected by the department of assessments and collections were as follows—

|                           |          |
|---------------------------|----------|
| Salaries and wages .....  | ₱82, 000 |
| Contingent expenses ..... | 18, 000  |
| Total .....               | 100, 000 |

which represents a fraction over 3.7 per cent of the total collections.

## PUBLIC MARKETS.

Several sellers of dried fish in the Divisoria market having complained that the market inspector had shown marked partiality in the assignment of stands, and the Municipal Board having considered that though the present claim did not have any foundation at all it would be convenient to avoid similar claims in the future, the following resolution was passed on July 11, 1906:

*Resolved*, That the city assessor and collector be hereby authorized and directed to sell at public auction on the afternoon of Saturday, the fourteenth instant, at an hour to be fixed by him, the privilege of occupying these new fixed stalls, with the understanding that the money bid and paid for this privilege is to be considered as a premium, to be paid once only, and in addition to the regular tariff rates now fixed or hereafter to be fixed by the Board; and provided further, that this privilege shall not be transferable, and that if any of these stalls are vacated by those who have under this scheme acquired the right of first occupancy, the first applicant for same shall be given the privilege of renting.

Having noticed the satisfaction given by the good result of this measure, not only by the high prices obtained from the stands already sold but also in the subsiding of the persons who presented the claims, the Municipal Board resolved, on the 19th of the same month, to repeat the same experiment with other vacant stands of the same market, under the same conditions. Besides, upon a motion of the market committee,

<sup>1</sup> ₱77,778.80 withheld by Insular Auditor for payment of accounts due the Insular Government is included in this amount.



it was resolved to modify the actual tariff of the said market, adopting in it the same system which was followed in the Arranque and Sampaloc markets, and this received the general approval of the venders and retailers patronizing it.

Although the second sale did not give as good a result as the first one, it was resolved, on the 14th of August, to follow the same policy with the remainder of the stands of section A, which were to be sold the 18th of the same month under the same conditions. It was intended by this measure to obtain a complete reform without having the general commotion which such a reform always produces.

Nobody attended the sale, and as a protest against it, and also against the new tariffs and method of assignment of stands, a few of the sellers and retailers favored by the previous system declared a strike, and in two days, having terrorized the rest to side with them, the strike became general on the 20th of that month.

The strikers asked for the suppression of the system of sales in the assignment of stands and that the previous system of tariffs in force during the Spanish régime should be put in force again. The said old system had established three kinds of stands, to wit:

(a) The so-called "fixed stands" (*fijos*), on which the rent was paid weekly.

(b) The so-called "changeable stands" (*volantes*), which did not have any numeration nor a prescribed place and on which they paid a tax on every basket, which tax changed according to the size of the basket. This rule was dependent on the judgment of the market collectors and so it was capable of a great deal of latitude.

(c) The so-called "mixed stands." This classification had been established by custom or prescription as it never had had official sanction. The said stands had an unnumbered place among the *volante* stands, for which privilege they paid a certain tax on them and at the same time they were subject to the same taxation per basket as the *volantes*.

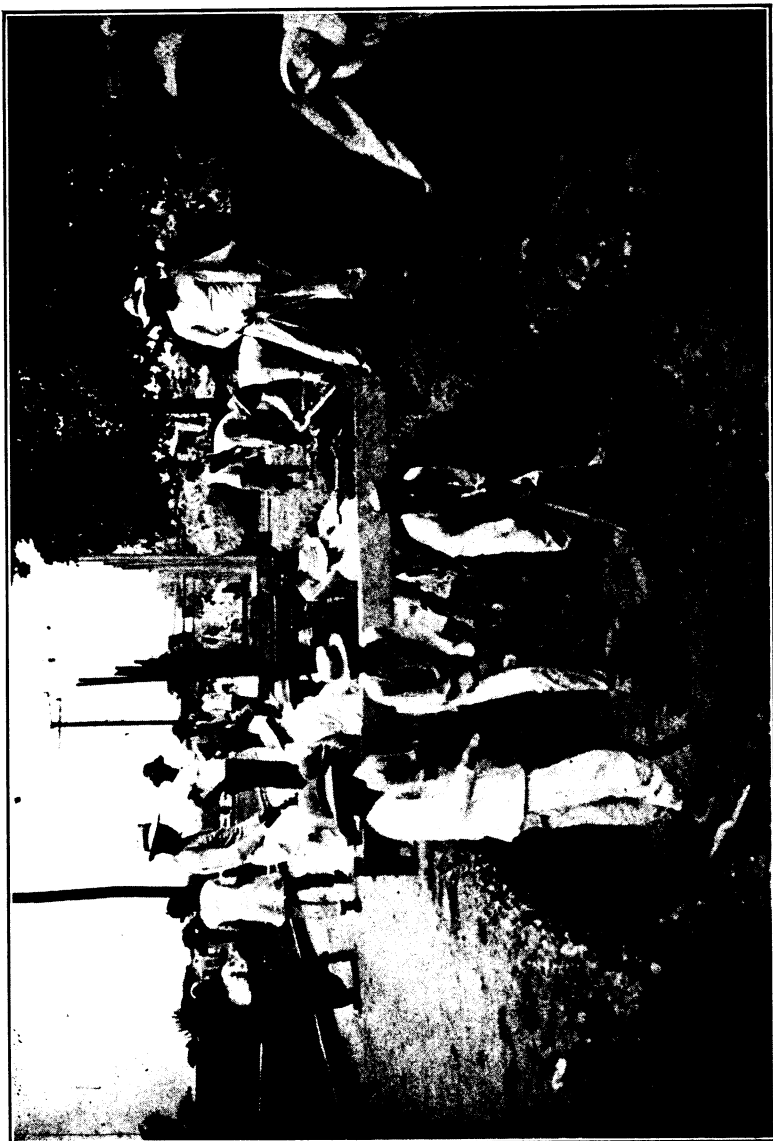
On the 22d of August there was chosen a committee formed by the committee on markets of the Municipal Board, the deputy city assessor and collector, and the chief inspector of markets; which committee rendered its report on the 25th of the same month.

This committee recommended that notwithstanding the tariff approved by the Municipal Board on the 19th of July fixing the rate of  $1\frac{1}{2}$  centavos per square foot on each stand, which was equitable, a new tariff based on the same principle and only to the extent of  $1\frac{1}{4}$  centavos per square foot be made; it also recommended the installation of more stands under the lateral roofs of the two yards of the market, with the object of holding the proceeds at the maximum figure which would be as it was during the year 1904. It further recommended that the new system of assignment by public sale should be discontinued, awaiting a better opportunity.



CALLE NUMANCIA.





CALLE HERRAN.



All these recommendations were accepted by the Municipal Board and it was decided that they should take effect on the 27th of the same month.

The strikers objected and after their reasons were heard only one of them was considered reasonable, and that was that the time of thirty-one days allowed from the date the resolution was passed till the date in which the new system should go into effect was not long enough. The objections of the strikers were due to their limited capacity for adapting themselves to any reform, no matter how beneficial it might be. For this reason the Municipal Board resolved to postpone the application of the aforementioned resolution of the 25th, to the 17th of December, leaving everything as it was on the 11th of July.

On the 29th of August the strikers returned to their business and continued until the 15th of December, when, seeing that the Municipal Board did not accede to their reiterated petitions that the application of the reform measures should be postponed indefinitely, the strikers went out until December 31. Then when the means they had prepared for continuing it were exhausted, and when they were convinced of the firmness of the Municipal Board in sustaining the resolution of August 27, they again returned to the market. Public order was not disturbed, notwithstanding the efforts made by the strikers to induce the people in other markets to join them in their obstreperous public demonstrations, and of certain political agitators who sought popularity.

On and after January 1, 1907, the market was again in its normal condition under the operation of the tariffs approved on August 25 last, and the daily rent yielded has been as expected.

It is just to make mention herein of the successful and energetic co-operation rendered by the division of assessments and collections for the city of Manila to the Municipal Board, and as well the activity displayed by the police department in restoring the business at the Divisoria market to its normal condition.

Since June 15, 1907, there has been established in the Quinta market the same system of tariffs which caused the strikes at the Divisoria market, the rate of ₱0.01 per square foot of the floor space of each stall. On the same date the chief of the department of sanitation and transportation, under the supervision of the Municipal Board, was charged with the administration of said market, there remaining in the hands of the city assessor and collector the duty of the collection of the stall rents.

The city assessor and collector, Mr. John S. Hord, has opposed the manner of collecting such rents and has questioned the efficiency of the tickets approved by the Municipal Board, claiming, moreover, that he had a right to the administration of the markets by virtue of Act No. 1407 and that, therefore, the resolution of the Municipal Board conferring upon the chief of the department of sanitation and transportation the administration of the Quinta market was illegal.

This question of jurisdiction has been definitely decided, because the opinion of the city attorney, to the effect that Act No. 1407 does not confer this function upon the city assessor and collector, was concurred in by the Attorney-General and confirmed by the Secretary of Finance and Justice.

The matter of the efficiency of the tickets involving, in addition, a question as to whether it carries along with it unnecessarily heavy expenses, is now under study and pending a definite resolution.

Since the new tariff became effective at the Divisoria market the constant falling off which was noticed in the rents of said market has ceased, and a considerable monthly increase of rents has been obtained in the Quinta market.

Since November 1, 1906, when the cleaning of market buildings, as an economic measure, was transferred to the department of sanitation and transportation, said department has succeeded in improving considerably the sanitary condition thereof and the desired economy has been attained.

Regarding this matter, and particularly the Quinta market, the Director of Health in his second quarterly report for the calendar year 1907 says the following:

The chief of the department of sanitation and transportation of the municipal government has continued his efforts of market improvement with great success. The tables have been reconstructed, so that they may readily be cleansed, instead of being the harboring places for vermin, filth, and other undesirable things. The markets are thoroughly flushed and scrubbed daily. Dry goods, shoes, and other commodities never intended to occupy the space for perishable produce are being gradually eliminated.

The following table shows the running expenses of the public markets and slaughterhouse during the fiscal year just ended:

| Market.                        | Receipts<br>1907.* | Expenses of<br>collections. | Outlay for<br>lighting,<br>cleaning,<br>repairs, etc. | Net receipts. |             |
|--------------------------------|--------------------|-----------------------------|---|---------------|-------------|
|                                |                    |                             |   | 1907.         | 1906.       |
| Divisoria.....                 | P131,895.31        | P10,104.42                  | P11,085.08  | P110,705.81   | P128,542.58 |
| Quinta.....                    | 57,337.05          | 2,890.55                    | 5,557.15  | 48,889.35     | 50,914.34   |
| Arranque.....                  | 24,757.35          | 1,426.65                    | 8,505.99  | 14,824.71     | 13,703.47   |
| Sampaloc.....                  | 8,559.50           | 357.34                      | 2,184.66  | 6,017.50      | 4,561.14    |
| Herran.....                    | 11,180.90          | 1,747.99                    | 2,086.06  | 7,346.85      | 9,421.53    |
| Anda.....                      | 1,287.50           | 489.94                      | 1,103.58  | 306.02        | 118.13      |
| Santa Ana.....                 | 1,455.45           | 311.68                      | 347.20  | 796.57        | 757.51      |
| Gagalangin.....                | 1,094.05           | 468.44                      | 333.20  | 292.41        | 037.48      |
| Pandacan.....                  | 1,144.35           | 309.33                      | 203.20  | 631.82        | 438.75      |
| Bay, Tettuan, and esteros..... |                    |                             |   |               | 7,509.69    |
| Total.....                     | 238,711.46         | 18,106.34                   | 31,406.12   | 189,199.00    | 215,768.36  |
| Slaughterhouse.....            | 164,962.53         | 10,084.79                   | 3,837.17  | 151,040.57    | 149,353.46  |
| Grand total.....               | 403,673.99         | 28,191.13                   | 35,243.29   | 340,239.57    | 365,121.82  |

\*This includes, as in former years, the salaries of the chief inspector of markets and 2 clerks and the hire of 1 vehicle, all amounting to P5,760.

<sup>b</sup> These are deficit items.

## CITY SCHOOLS.

*School enrollment during the month of June, 1902-1907.*

| Month of June— | Day schools. | Night schools. |
|----------------|--------------|----------------|
| 1902-----      | 2, 244       | 1, 556         |
| 1903-----      | 3, 046       | 2, 626         |
| 1904-----      | 5, 767       | 5, 043         |
| 1905-----      | 7, 803       | 5, 334         |
| 1906-----      | 8, 311       | (*)            |
| 1907-----      | 8, 486       | (b)            |

\*The night-school funds for the fiscal year 1906 having been exhausted, it was not possible to open the night schools in June. They were opened on July 9. The attendance of same for July was 1,405.

°On account of the rainy season, it was not thought advisable to open the night schools in June. They will be opened though, later on in the year, some time in September.

Enrollment and attendance continue about normal. Every portion of the seating capacity of the city schools is being utilized. It will be observed from the foregoing table that the percentage of attendance is remarkable high, and the necessity for a greater number of schoolhouses as indicated in former reports still exists.

## SCHOOL DISTRICTS.

Considerable changes have been introduced in the six districts existing during the year past, and the same have been classified as follows:

*Primary schools.*—First district: Paco, Pandacan, Santa Ana, Sampaloc, and Santa Mesa. Second district: Concepcion, Ermita, Intramuros, Malate, and Singalong. Third district: Santa Cruz (advanced), Santa Cruz, San Lazaro, Quiapo, and San Miguel. Fourth district: Meisic, Chinese, Galangin, and San Nicolas.

*Intermediate schools.*—Meisic, Sampaloc, Paco.

*Special schools.*—Manila High School, School of Business, American School, Hospicio de San José.

## SCHOOLHOUSES.

The number, location, and monthly rental of the city schoolhouses, according to the data furnished by the superintendent of city schools, is as follows:

*Buildings and locations.*

| Name of building.         | Location.                       | Monthly rental. |
|---------------------------|---------------------------------|-----------------|
| American -----            | 417 Calle Nozaleda -----        | P500. 00        |
| Concepcion -----          | 187 Calle San Marcelino -----   | 80. 00          |
| Chinese -----             | 72 Calle Asuncion -----         | (*)             |
| Domestic Science -----    | 4 Calle Meisic -----            | (*)             |
| Ermita -----              | 118 Calle Real -----            | 120. 00         |
| Galangin -----            | 380 Calle Galangin -----        | (*)             |
| Intramuros -----          | 205 Calle Real -----            | 200. 00         |
| Meisic -----              | 3 Calle Meisic -----            | (*)             |
| Meisic Intermediate ----- | 1-2 Calle Meisic -----          | (*)             |
| Malate -----              | 417 Plaza de Malate -----       | (*)             |
| Manila High School -----  | 172 Calle Victoria -----        | (*)             |
| Paco -----                | 31 Calle Vives (interior) ----- | 180. 00         |

\*Owned by the Government.



*Buildings and locations—Continued.*

| Name of building.           | Location.                     | Monthly rental. |
|-----------------------------|-------------------------------|-----------------|
| Paco Intermediate .....     | 269 Calle Herran .....        | P150.00         |
| Pandacan .....              | 9 Calle Sementera .....       | 80.00           |
| Quiapo .....                | 28 Calle Concepcion .....     | 150.00          |
| Sampaloc .....              | 89 Calle Alix .....           | 300.00          |
| Sampaloc Intermediate ..... | 4 Calle Alejandro VI .....    | 200.00          |
| Santa Ana .....             | 6 Calle Panadero .....        | 50.00           |
| Santa Cruz .....            | 608 Calle Bilibid .....       | 250.00          |
| Santa Cruz Advanced .....   | 97 Calle Dolores .....        | 150.00          |
| San Lazaro .....            | 688 Calle Cervantes .....     | 80.00           |
| San Miguel .....            | 129 Calle S. Rafael .....     | 180.00          |
| San Nicolas .....           | 177 Calle Madrid .....        | 300.00          |
| Santa Mesa .....            | 435-7 Calle Santamesa .....   | 200.00          |
| School of Business .....    | 38-44 Calle Gunao .....       | 300.00          |
| Singalong .....             | 146-147 Calle Singalong ..... | 80.00           |

Regarding this matter, the following comments are made in the annual report of the superintendent of schools:

Reasonably satisfactory improvement has been effected during the year in the class and conditions of buildings occupied by city schools.

The old Cuartel Meisic as repaired is only fairly satisfactory. The location is not good, being practically on the edge of the district from which pupils are drawn. The result is that only part of the actual seating capacity of the buildings is being utilized. Class rooms in the two-storied portions of the cuartel are satisfactory, but those in the long, low portions are so imperfectly lighted and ventilated that extensive change and repair are necessary before the health and comfort of pupils will be properly provided for. In spite of all efforts to fill this school it is found that the total enrollment in less than 2,000. If the building were more centrally located with reference to school population, 2,500 could be easily accommodated.

In Paco, at No. 31 Calle Vives, a fairly satisfactory building capable of seating 350 pupils has been secured.

In Ermita, at No. 118 Calle Real, a fairly satisfactory building capable of seating 250 pupils has been secured.

In San Lazaro, at No. 688 Calle Cervantes, a fairly satisfactory building capable of seating 200 pupils has been secured.

In Santa Cruz, at No. 97 Calle Dolores, a very good building capable of seating 300 pupils has been secured.

In San Nicolas the old quartermaster shops are being repaired and when completed will be capable of seating 800 pupils.

In Meisic a large kitchen has been added to the domestic-science building, increasing the capacity of this institution very materially.

In outer Tondo the property included between Calles Morga, Melchor Cano, Lorenzo Chacon, and Sande has been secured by the city as the site upon which the new P100,000 school building is to be constructed. This piece of property contains 383.19 square meters and affords ample room for a baseball field for the boys, recreation grounds for girls, as well as the space required for building. This project originated with the Secretary of Public Instruction, who provided P50,000 upon the condition that the Municipal Board would provide an equal amount and would in addition provide a suitable site upon which to construct a thoroughly modern school building.

In San Nicolas the building at 177 Calle Madrid will in a short time be abandoned and the school at present being conducted in that building, numbering 587 pupils, will be transferred to the old quartermaster shop on Calle San Fernando. This property, formerly in possession of the military, has been transferred through the Insular Government to the city of Manila, to be used for school purposes for a period of ten years. The expense accompanying the making of repairs necessary to render the building fit for use by a school will amount to ₱5,600, approximately. This building when repaired will contain twenty class rooms, all of which, with two exceptions, are well lighted and ventilated and adapted for school purposes. The grounds inclosed are extensive and in excellent condition. With the possible exception of location, the building being on the edge of the district accommodated, this promises to be one of the best school buildings in the city.

In addition to the acquisitions above indicated, such extensive improvements have been effected that at present, with the exceptions indicated, there is not employed by the city for school purposes one building in which the condition as regards space, light, ventilation, and sanitation is not up to a reasonably high standard.

There is of course unlimited room for improvement in the housing of schools in the city. Only three city schools—the High School, the Malate primary, and the Gagalangin primary—are conducted in buildings originally intended for school purposes. No amount of repair and construction short of the erection of new buildings can make good schoolhouses of the miscellaneous assortment of structures at present serving as schools.

## FURNITURE.

A very considerable addition of school furniture to the equipment of last year has added materially to the accommodation and comfort of pupils, and has also made it possible to carry on in a practical form special lines of work which were formerly rendered impossible, or were at least seriously retarded, by reason of the lack of facilities. In this class is included the following:

|                                      |                 |
|--------------------------------------|-----------------|
| 200 bookcases .....                  | ₱2,970.00       |
| 100 tables .....                     | 643.50          |
| 1,011 desks .....                    | 3,640.03        |
| 2 herbarium cases .....              | 66.00           |
| 50 lockers .....                     | 140.00          |
| 2 tables with water connections..... | 130.00          |
| 1 table for motor.....               | 12.00           |
| 1 dark room .....                    | 52.00           |
| 2 wardrobes .....                    | 75.00           |
| 20 tables, drawing with stools.....  | 260.00          |
| 40 stools, bamboo.....               | 44.00           |
| <b>Total .....</b>                   | <b>8,032.53</b> |

## TEACHERS' SALARIES.

The number of teachers employed in the city schools, together with the salary drawn by each, is shown in detail in the appended table furnished by the superintendent of schools:

*Number of teachers employed and monthly salaries paid, June 30, 1907.*

| Name of school.             | P40. | P40. | P50. | P60. | P70. | P80. | P90. | P100. | P110. | P120. | P133.33. | P150. | P166.66. | P183.33. | P190. | P200. | P216.16. | P220. | P233.33. | P250. | Total. |
|-----------------------------|------|------|------|------|------|------|------|-------|-------|-------|----------|-------|----------|----------|-------|-------|----------|-------|----------|-------|--------|
| American <sup>a</sup> ..... | 1    |      |      |      |      |      |      |       |       |       |          |       | 1        |          |       | 6     |          |       | 1        | 2     | 11     |
| Concepcion.....             | 1    |      |      | 2    |      |      |      |       | 1     |       |          |       |          |          |       |       |          |       |          |       | 4      |
| Chinese.....                |      |      |      | 1    |      |      |      |       |       | 1     |          |       |          |          |       |       |          |       |          |       | 2      |
| Domestic Science.....       |      |      | 1    |      |      |      |      |       |       |       |          |       |          |          |       | 1     |          |       |          |       | 2      |
| Ermita.....                 | 2    | 1    |      | 1    | 1    |      | 2    |       |       |       |          |       |          |          |       |       |          |       |          |       | 7      |
| Gagalangin.....             | 1    |      |      |      | 2    | 1    |      |       |       |       |          |       |          |          |       |       |          |       |          |       | 4      |
| Intramuros.....             | 2    | 1    |      | 3    | 4    | 1    |      | 1     |       |       |          |       |          |          |       |       |          |       |          |       | 12     |
| Meisic.....                 | 12   | 4    | 2    | 8    | 7    | 3    |      | 1     | 1     | 1     |          |       |          |          |       |       |          |       |          |       | 39     |
| Meisic Intermediate.....    | 1    |      |      |      |      |      | 1    |       |       |       |          | 1     | 2        | 1        |       |       |          |       | 1        |       | 9      |
| Malate <sup>b</sup> .....   | 2    | 1    | 2    | 3    | 2    | 3    |      |       | 1     |       |          |       |          |          |       |       |          |       |          |       | 14     |
| Manila High School.....     |      |      |      |      | 1    | 1    |      |       |       |       | 1        |       | 1        |          |       | 4     | 1        | 1     | 1        | 3     | 13     |
| Paco.....                   | 6    | 1    | 1    | 1    | 2    | 1    | 1    |       |       |       |          |       |          |          |       |       |          |       |          |       | 13     |
| Paco Intermediate.....      |      |      |      |      |      | 1    |      |       |       |       |          | 1     |          |          |       | 2     |          |       |          | 1     | 5      |
| Pandacan.....               | 1    |      |      | 4    |      |      | 1    |       |       |       |          |       |          |          |       |       |          |       |          |       | 6      |
| Quiapo.....                 | 2    |      | 1    |      | 1    | 1    |      |       |       |       |          |       |          |          |       |       |          |       |          |       | 5      |
| Sampaloc.....               | 6    |      | 2    | 3    | 5    | 3    |      | 1     |       |       |          |       |          |          |       |       |          |       |          |       |        |
| Sampaloc Intermediate.....  |      |      |      | 1    |      |      |      |       |       | 2     |          |       | 2        | 1        | 1     | 1     | 1        |       |          |       | 9      |
| Santa Ana.....              | 1    |      |      |      | 2    | 2    |      |       |       |       |          |       |          |          |       |       |          |       |          |       | 6      |
| Santa Cruz.....             | 7    | 1    | 1    | 6    | 2    |      |      | 1     |       |       |          |       |          |          |       |       |          |       |          |       | 18     |
| Santa Cruz Advanced.....    |      |      |      | 3    | 3    | 2    |      |       | 1     |       |          |       |          |          |       |       |          |       |          |       | 9      |
| San Lazaro.....             | 3    |      |      |      |      | 1    | 1    |       |       |       |          |       |          |          |       |       |          |       |          |       | 5      |
| San Miguel.....             | 4    |      |      | 1    | 1    |      | 1    |       |       |       |          |       |          |          |       |       |          |       |          |       | 7      |
| San Nicolas.....            | 8    |      | 2    | 6    | 2    | 1    |      |       |       | 1     |          |       |          |          |       |       |          |       |          |       | 20     |
| Santa Mesa.....             | 1    | 1    |      | 4    | 1    | 1    | 1    |       |       |       |          |       |          |          |       | 2     |          |       |          |       | 9      |
| School of Business.....     | 1    |      |      |      | 2    | 2    |      |       |       |       |          | 1     | 2        |          |       |       |          |       | 2        |       | 10     |
| Singalong.....              | 1    |      | 1    | 1    | 2    |      | 1    |       |       |       |          |       |          |          |       |       |          |       |          |       | 6      |
| Supervisors.....            |      |      |      |      |      |      |      |       |       |       |          |       |          |          | 1     |       |          |       | 3        |       | 4      |
| Unassigned.....             |      |      |      |      | 2    |      |      |       |       |       |          |       |          | 1        |       |       |          |       |          |       | 3      |
| Total.....                  | 63   | 10   | 15   | 49   | 42   | 22   | 8    | 5     | 5     | 3     | 1        | 3     | 8        | 3        | 1     | 17    | 2        | 1     | 6        | 8     | 272    |

<sup>a</sup> Includes high, grammar, primary, and kindergarten.

<sup>b</sup> Includes high and intermediate.

<sup>c</sup> Temporary teachers who do not receive vacation pay.

## DEPARTMENT OF SEWER AND WATER WORKS CONSTRUCTION.

WATER SUPPLY.<sup>1</sup>

The following table gives an exact idea of the progress of the work and payments made to the contractors for the waterworks construction up to June 30, 1907:

| Item.                    | To whom awarded.                   | Work done.           | Amount of bid. | Payments.   |
|--------------------------|------------------------------------|----------------------|----------------|-------------|
| Construction of dam..... | Matson, Lord & Belser Co.....      | 1/2 complete.....    | \$241,510.25   | \$35,247.00 |
| Steel plates.....        | H. W. Peabody Co.....              | Almost complete..... | 99,900.31      | 101,000.00  |
| Steel pipe.....          | Atlantic, Gulf and Pacific Co..... | complete.....        | 281,935.00     | 138,000.00  |
| Tunnel.....              | do.....                            | complete.....        | 179,987.50     | 124,000.00  |
| Reservoir.....           | Matson, Lord & Belser Co.....      | complete.....        | 222,477.70     | 95,000.00   |

The delay in the construction of the dam is due to the loss of time in commencing the work due to the difficulties encountered by the

<sup>1</sup> See annual report for 1906 and 1907.

contractors in its prosecution, caused chiefly by the rough and rocky nature of the land which has to be excavated and the copious rains of the season.

The steel plates, by reason of their manufacture, turned out to be of greater weight and produced small increase in their price.

The tunnels required the use of a thicker lining of concrete than that estimated for their construction, owing to the softness of the ground.

#### SEWERAGE SYSTEM.

Approximately 14 miles of sewers of the largest and deepest construction work according to the project are constructed, and, although the total extension of the sewers has been estimated at 52 miles, nevertheless the work completed is considered to be the most difficult and can be estimated as representing one-half of the entire work.

One-third of the total installation of the outfall pipe is completed.

Six hundred and twelve thousand five hundred and sixteen dollars and forty-three cents were expended out of the \$1,631,053.20 contract price for the works mentioned, including all the necessary material to be used therein.

Bids have been advertised for the furnishing and installing of the necessary electrically driven pumps and motors for the six pumping stations of this system.

#### *Statement of expenditures compared with the income and estimate of outlay.*

##### INCOME.

|  |                |
|--|----------------|
| Amount of loan .....                             | \$4,000,000.00 |
| Premium at the rate of \$95,625 per million..... | 382,500.00     |
| Total .....                                      | 4,382,500.00   |

##### OUTLAY.

| Item.  | Expended during fiscal year 1907. | Estimated outlay. |
|--|-----------------------------------|-------------------|
| Amount of contract for the water system:             |                                   |                   |
| Part 1 .....   | \$479, 871. 85                    | \$1, 025, 000. 00 |
| Part 2 .....   |                                   | 165, 000. 00      |
| Part 3 .....   | 823. 72                           | 400, 000. 00      |
| Amount of contract for the sewer system:             |                                   |                   |
| Part 1 .....   | 604, 199. 88                      | 1, 631, 000. 00   |
| Part 2 .....   |                                   | 370, 000. 00      |
| Contingent funds .....                               | 68, 895. 47                       | 150, 000. 00      |
| Customs duties on the materials to be imported ..... | 32, 828. 03                       | 100, 000. 00      |
| Cost of inspection and supervision .....             | 43, 586. 35                       | 150, 000. 00      |
| Total .....  | 1, 230, 205. 30                   |                   |
| Expense incurred up to June 30, 1906 .....           |                                   | 380, 000. 00      |
| Total .....  |                                   | 4, 371, 000. 00   |

#### STORM-WATER DRAIN.

According to the report of the chief engineer, department of sewer and waterworks construction, the most important work in this division was the building of a large storm-water drain in Calle Hospital, and

discharging into the Pasig River. The narrowness of the street rendered it necessary to construct this drain directly over the main sewer, and it was designed and installed in such a way that the arch of the main sewer constitutes the invert of the storm-water drain. This construction is rather unique, but will be entirely satisfactory and cost less than a separate drain.

The large storm-water drain in Calle Soler under construction at the close of last year was promptly and satisfactorily completed.

No further works of considerable quantity have been done in this division due to the lack of specific funds set aside for this work, it being necessary to wait for the completion of the water-supply and sewerage system construction, for which the \$4,000,000 loan was exclusively raised, before any remaining funds therefrom can be applied to the building of storm-water drains.

#### DEPARTMENT OF SANITATION AND TRANSPORTATION.

As will be observed, this department covers a very large field of work; that is, street cleaning, street sprinkling, collection and disposal of refuse, collection and disposal of night soil, care of parks and public grounds, care of cemeteries, care of markets, and the handling of all land transportation, both Insular and city. The work has been most economically and efficiently carried on under the management of Mr. J. C. Mehan, chief of the department.

##### STREET SWEEPING.

The streets were swept entirely by hand labor. The low cost of labor and small proportion of paved streets make this the most economical and feasible method for sweeping the streets of Manila.

A force of street sweepers, with shovels and hand carts for collecting the sweepings, patrolled an area of 1,741,380 square meters of street surface daily. Some of the business streets were swept as often as three times daily.

To a detail from the regular force was assigned the duty of keeping the cross walks clean at all hours of the day. A larger force was detailed to scrape all accumulations of earth, grass, etc., from the gutters and street canals; some of these were flushed and disinfected.

The total cost for wages, tools, supplies, and repairs amounted to ₱47,293.18. This includes the cost of removing 31,355 hand-cart loads of sweepings to sites being filled.

The cost of carting sweepings, mud, grass, etc., used for filling, with horse transportation was ₱7,730.

The average daily cost per thousand square meters for street cleaning was less than 7½ centavos.

The transportation issued at regular tariff rates was as follows:

|  |                   |
|--|-------------------|
| For Insular Bureaus .....  | ₱89,489.87        |
| For city offices, exclusive of department of sanitation and transportation ..... | 95,041.92         |
| For department of sanitation and transportation .....                            | 288,067.46        |
| Sale of animals and vehicles .....   | 995.80            |
| <b>Total .....</b>   | <b>473,595.05</b> |
| Excess balance of earnings over cost .....                                       | 45,629.92         |

It is believed that the vehicles, harness, and stable buildings on hand June 30, 1907, represent a value equal to those on hand June 30, 1906, and that the present equipment can be utilized to greater advantage.

The only question is whether or not the sum of ₱45,629.92 would make good the deterioration and loss on animals. It is believed that it would, and that the present tariff rates for transportation very nearly represent actual transportation expenses.

Information has been sought as to the practicability of using motor cars driven by electricity, gasoline, alcohol, or steam. The response to requests for data in this matter has been slow, and there has not as yet been any information obtained which warrants any expenditure in this direction other than for experimental purposes.

There are certain items of expense connected with horse-drawn vehicles which are much higher in Manila than in most of the cities where motor cars have been used for commercial purposes to any extent. This should be taken into consideration in making any comparison as to operating expenses of horse-drawn vehicles and motor cars.

*Statement showing cost of operating the department.*

| Item.                                       | Labor and<br>contingent<br>expenses. | Transportation.   | Total.            |
|---|--------------------------------------|-------------------|-------------------|
| Street sprinkling .....                     | ₱16,834.75                           | ₱55,998.00        | ₱72,832.75        |
| Street cleaning .....                       | 47,293.18                            | 7,730.10          | 55,023.28         |
| Collection and disposal of refuse .....     | 30,928.64                            | 78,505.40         | 109,434.04        |
| Collection and disposal of night soil ..... | 92,541.35                            | 40,626.38         | 133,167.73        |
| City pound .....                            | 404.38                               | 1,050.40          | 1,454.78          |
| Markets .....                               | 11,591.92                            | 173.05            | 11,764.97         |
| Meat transportation .....                   | 1,532.30                             | 5,100.00          | 6,632.30          |
| Filling low lands .....                     |                                      | 38,766.86         | 38,766.86         |
| Parks .....                                 | 40,276.43                            | 17,346.23         | 57,622.66         |
| Cemeteries .....                            | 31,746.44                            | 38,644.67         | 70,391.11         |
| Administration .....                        | 40,433.82                            | 4,126.37          | 44,560.19         |
| <b>Total .....</b>                          | <b>313,583.21</b>                    | <b>288,067.46</b> | <b>601,650.67</b> |
| City stables .....                          | 427,965.13                           | 139,897.67        | 139,897.67        |
| <b>Total .....</b>                          | <b>741,548.34</b>                    | <b>427,965.13</b> | <b>741,548.34</b> |
| Deducting outstanding forage account .....  |                                      | 7,075.00          | 7,075.00          |
| <b>Total .....</b>                          |                                      | <b>420,890.13</b> | <b>734,473.34</b> |
| Less repayments .....                       |                                      |                   | 220.32            |
| <b>Total net expenditures .....</b>         |                                      |                   | <b>734,253.02</b> |